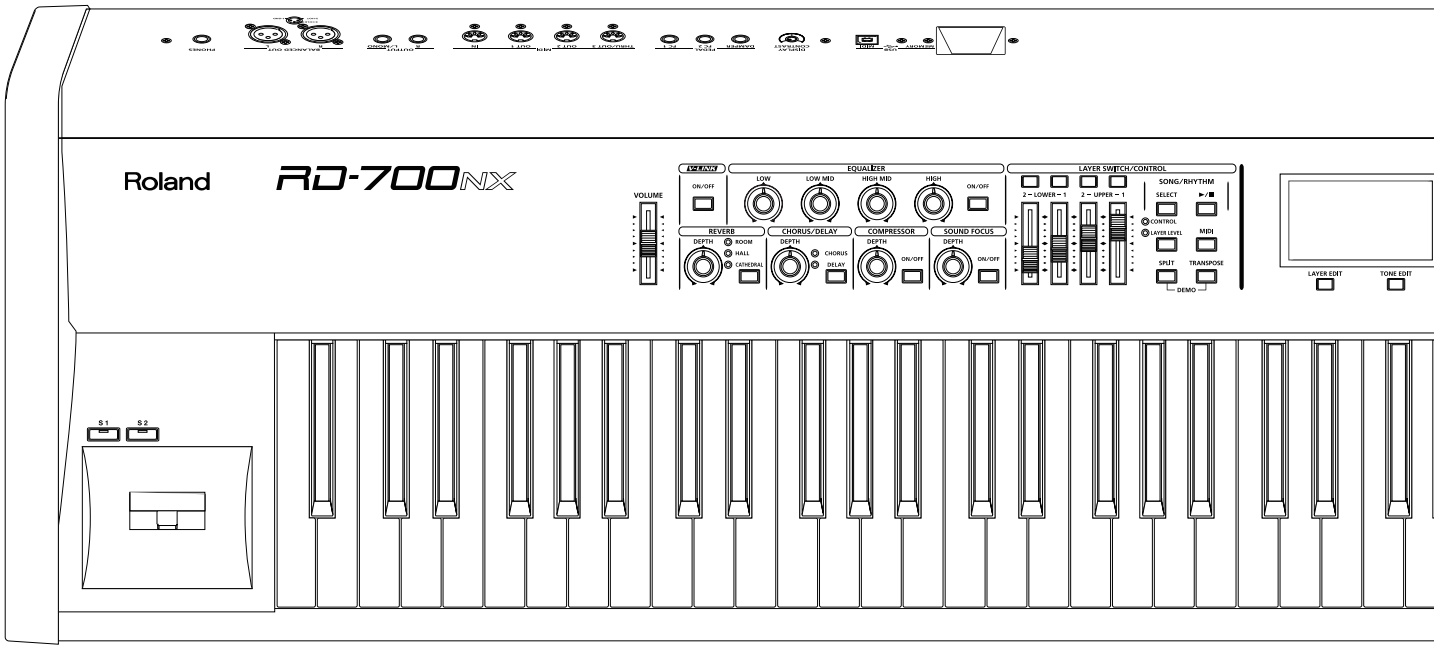


RD-700NX

Owner's Manual

Roland

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

For the U.K.

WARNING: THIS APPARATUS MUST BE EARTHED
IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.
GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" , "USING THE UNIT SAFELY" (p. 4), and "IMPORTANT NOTES" (p. 6). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠ CAUTION Notices

⚠ WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠ CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

⚠	The △ symbol alerts the user to important instructions or warnings.The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⃠ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

⚠ WARNING

Connect mains plug of this model to a mains socket outlet with a protective earthing connection.

Do not open or perform any internal modifications on the unit.

Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

Never install the unit in any of the following locations.

- Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
- Damp (e.g., baths, washrooms, on wet floors); or are
- Exposed to steam or smoke; or are
- Subject to salt exposure; or are
- Humid; or are
- Exposed to rain; or are
- Dusty or sandy; or are
- Subject to high levels of vibration and shakiness.

This unit should be used only with a rack or stand that is recommended by Roland.

When using the unit with a stand recommended by Roland, the stand must be carefully placed so it is level and sure to remain stable. If not using a stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.

⚠ WARNING

The unit should be connected to a power supply only of the type described as marked on the rear side of unit.

Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device.

Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.

Do not place containers containing liquid on this product. Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.

⚠ WARNING

Immediately turn the power off, remove the power cord from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:

- The power-supply cord or the plug has been damaged; or
- If smoke or unusual odor occurs
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.

In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.

Protect the unit from strong impact.

(Do not drop it!)

Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords; the total power used by all devices you have connected to the extension cord' outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

DO NOT play a CD-ROM disc on a conventional audio CD player. The resulting sound may be of a level that could cause permanent hearing loss. Damage to speakers or other system components may result.

⚠ CAUTION

The unit should be located so that its location or position does not interfere with its proper ventilation.

This (RD-700NX) for use only with Roland stand KS-G8. Use with other stands is capable of resulting in instability causing possible injury.

Even if you observe the cautions given in the owner's manual, certain types of handling may allow this product to fall from the stand, or cause the stand to overturn. Please be mindful of any safety issues before using this product.

Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit.

At regular intervals, you should unplug the power plug and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.

Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

Never climb on top of, nor place heavy objects on the unit.

Never handle the power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.

If you need to move the instrument, take note of the precautions listed below. At least two persons are required to safely lift and move the unit. It should be handled carefully, all the while keeping it level. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage.

- Disconnect the power cord.
- Disconnect all cords coming from external devices.

Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 14).

Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet.

IMPORTANT NOTES

Power Supply

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter (such as a refrigerator, washing machine, microwave oven, or air conditioner), or that contains a motor. Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.

- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

- Although the LCD and LEDs are switched off when the POWER switch is switched off, this does not mean that the unit has been completely disconnected from the source of power. If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.

- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.

- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.

- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.

- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.

- Do not allow objects to remain on top of the keyboard. This can be the cause of malfunction, such as keys ceasing to produce sound.

- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface. You can place a piece of felt or cloth under the rubber feet to prevent this from happening. If you do so, please make sure that the unit will not slip or move accidentally.

- Do not put anything that contains water (e.g., flower vases) on this unit. Also, avoid the use of insecticides, perfumes, alcohol, nail polish, spray cans, etc., near the unit. Swiftly wipe away any liquid that spills on the unit using a dry, soft cloth.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Repairs and Data

- Please be aware that all data contained in the unit's memory may be lost when the unit is sent for repairs. Important data should always be backed up USB memories, or written down on paper (when possible). During repairs, due care is taken to avoid the loss of data. However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Roland assumes no liability concerning such loss of data.

Additional Precautions

- Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of loosing important data, we recommend that you periodically save a backup copy of important data you have stored in the unit's memory on USB memories.

- Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory, or USB memories once it has been lost. Roland Corporation assumes no liability concerning such loss of data.

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.

- Never strike or apply strong pressure to the display.

- A small amount of noise may be heard from the display during normal operation.

- When connecting / disconnecting all cables, grasp the connector itself; never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.

- A small amount of heat will radiate from the unit during normal operation.

- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you.

- The sound of keys being struck and vibrations produced by playing an instrument can be transmitted through a floor or wall to an unexpected extent.
  In particular, when using headphones, please take care not to cause annoyance to others nearby.

- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

- Use only the specified expression pedal (EV-5, EV-7; sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.

Using USB Memories

- Carefully insert the USB memories all the way in; until it is firmly in place.
- Never touch the terminals of the USB memories. Also, avoid getting the terminals dirty.
- USB memories are constructed using precision components; handle the USB memories carefully, paying particular note to the following.
  - To prevent damage to the USB memories from static electricity, be sure to discharge any static electricity from your own body before handling the USB memories.
  - Do not touch or allow metal to come into contact with the contact portion of the USB memories.
  - Do not bend, drop, or subject USB memories to strong shock or vibration.
  - Do not keep USB memories in direct sunlight, in closed vehicles, or other such locations.
  - Do not allow USB memories to become wet.
  - Do not disassemble or modify the USB memories.

Handling CDs / DVDs

- Avoid touching or scratching the shiny underside (encoded surface) of the disc. Damaged or dirty CD discs may not be read properly. Keep your discs clean using a commercially available CD cleaner.

Copyright

- Recording, duplication, distribution, sale, lease, performance, or broadcast of copyrighted material (musical works, visual works, broadcasts, live performances, etc.) belonging to a third party in part or in whole without the permission of the copyright owner is forbidden by law.
- Do not use this product for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this product.
- The copyright of content in this product (the sound waveform data, style data, accompaniment patterns, phrase data, audio loops and image data) is reserved by Roland Corporation.
- Purchasers of this product are permitted to utilize said content for the creating, performing, recording and distributing original musical works.
- Purchasers of this product are NOT permitted to extract said content in original or modified form, for the purpose of distributing recorded medium of said content or making them available on a computer network.
- MMP (Moore Microprocessor Portfolio) refers to a patent portfolio concerned with microprocessor architecture, which was developed by Technology Properties Limited (TPL). Roland has licensed this technology from the TPL Group.
- MPEG Layer-3 audio compression technology is licensed from Fraunhofer IIS Corporation and THOMSON Multimedia Corporation.
- GS () is a registered trademark of Roland Corporation.
- All product names mentioned in this document are trademarks or registered trademarks of their respective owners.

Contents

USING THE UNIT SAFELY 4

IMPORTANT NOTES 6

Panel Descriptions 10
- Front Panel 10
- Rear Panel 12

Getting Ready 13
- Placing the RD-700NX on a Stand 13
- Connecting the Power Cord 14
- Connecting the External Equipment to RD-700NX 15
  - Connecting Pedals 16
- Turning the Power On and Off 17
  - Turning On the Power 17
  - Turning Off the Power 17
- Adjusting the Volume 18
- Adjusting the Display Contrast 18
- Connecting the USB Memory 18
- Connecting the CD Drive 19

Overview of the RD-700NX 20
- Basic Organization of the RD-700NX 20
  - About Memory 20
  - About Live Sets 21
- Basic Operation 22
  - Main Screens 22
  - Special Indications 23
  - About the Function Buttons 23
  - About the Cursor Buttons 23
  - Editing a Value 24

Listening to the Demo (DEMO PLAY) 25

Performance 26
- Piano Performances 26
- Performing with a Variety of Live Sets 27
- Playing Multiple Tones with the Keyboard 28
  - Performing with Layered Tones 28
  - Playing Different Tones in Two Different Sections of the Keyboard 29
  - Changing the Tone for a Layer 30
- Adjusting the Volume Level for Individual Layers 31
- Transposing the Key of the Keyboard (TRANSPOSE) 32
- Adding Reverberation to the Sound (REVERB) 33
- Adding Breadth to the Sound (CHORUS/DELAY) 33
- Changing the Sound's Pitch in Real Time 34
- Adding Liveliness to the Sound (COMPRESSOR) 34
- Enhancing the sound's definition (SOUND FOCUS) 34
- Adjusting the Levels of Each Frequency Range (EQUALIZER) 35
- Disabling the Button 36

Using the Convenient Functions in Performances 37
- Playing Rhythm 37
  - Changing Rhythm Tempos 37
  - Changing the Rhythm Pattern 37
- Playing the Songs 38
  - Selecting the Song 38
  - Changing Song Tempos 39
  - Fast-forwarding or Rewinding a Song 39
  - Return to the Beginning of the Song 39
- Recording Audio 40
  - Getting ready to record 40
  - Starting/stopping recording 40
- Applying Effects to the Sound (MFX) 41
- Simulating the Creation of Organ Tones 42
  - Changing the Undulation of the Organ Tone (Rotary Effect) . 43
  - Changing the Layer LEVEL Slider Feet Assignments 43
- Selecting Stored Settings (Live Set) 44
  - Registering the Live Sets You Like 44
- Storing Settings to Live Sets 45

Making Detailed Settings for the ONE TOUCH Tones . 46
- Making Detailed Settings for the Piano Tones 46
  - Changing the Key Touch 48
  - Finely Adjusting the Tuning 48
  - Adjusting Resonance when the Damper Pedal is Depressed 48
  - Making the Equalizer Settings 49
  - Restore the Settings to Initial Conditions 49
- Making Detailed Settings for the E. Piano Tones 50
  - Selecting an Effect 52
  - Selecting the Type of Amp 52
  - Adjusting the Keyboard Touch Response 53
  - Restore the settings to initial conditions 53

Making Detailed Settings for Tones 54
- Making Tone Settings 54
- Making Layer Settings 56

Using the RD-700NX As a Master Keyboard 58
- What's MIDI? 58
  - About MIDI Connectors 58
- Adjusting the Volume of Each Layer 59
- Selecting the MIDI Connector to Use for Output 59
- Setting the MIDI Transmit Channel 60
- Selecting Sounds on an External MIDI Device 61
- Detailed Settings for Transmitted Parts 62
  - Adjusting the Volume and Pan (Volume/Pan) 62
  - Setting the Amount of Reverb and Chorus (Reverb/Chorus) . 62
  - Playing Sound Monophonically (Mono/Poly) 62
  - Setting the Transposition for Each Individual Layer (Transpose) 62
  - Setting the Key Range for Each Layer (Key Range) 62
  - Changing the Range That Plays in Response to the Velocity (Velocity Range) 63
  - Changing Tone Elements (ATK/DCY/REL/COF/RES) 63
  - Smoothly Changing the Pitch (Portamento) 63
  - Setting the Change in Volume According to the Force Used to Play the Keyboard (Velocity Sense/Max) 63
  - Changing the Pitch (Coarse Tune/Fine Tune) 63
  - Setting the Range for the Change in Pitch with the Pitch Bend Lever (Bend Range) 64
  - Setting the Amount of Modulation Applied (Modulation Depth) 64
  - Turning Each Controller On and Off 64
  - Transmitting the Control Change (USER CC) 64

Detailed Settings for Each Function 65
- Setting Parameters 65

Making System Settings 66
Tuning to Other Instruments' Pitches (Master Tune) 67
Adjusting the Volume (Master Volume) 67
Preventing Equalizer Settings from Being Switched (EQ Mode) 67
Preventing Pedal Settings from Being Switched (Pedal Mode) 67
Retaining the Current Tone Even When Tones are Switched (Tone Remain) 68
Preventing the [S1] [S2] buttons from Being Switched (S1/S2 Mode) 68
Using Program Change Messages to Switch Live Sets (Live Set Control Channel) 69
Selecting the USB Driver (USB Driver) 69
Switching the USB Memory Mode (USB Memory Mode) 69
Selecting the USB MIDI Thru Switch (USB MIDI Thru Switch) 69
Selecting the Function of the MIDI THRU/OUT 3 Connector (MIDI OUT3 Mode) 69
Switching the Pedal's Polarity (Damper/FC1/FC2 Polarity) 69
Selecting the Number of Parts (Part Mode) 69
Setting the Tuning Method (Temperament/Key) 70
Switching Between Reception of GM/GM2 System On and GS Reset (Rx GM/GM2 System ON, Rx GS Reset) 70
Setting the Keyboard Touch 70
Changing the Key Touch (Key Touch) 71
Making Fine Adjustments to the Keyboard Touch (Key Touch Offset) 71
Setting a Constant Volume Level in Response to the Playing Force (Velocity) 71
Changing the Timing of Sounds in Response to the Velocity (Velo Delay Sens) 71
Changing the Touch Sensitivity According to the Key Range (Velo Keyflw Sens) 71
Specifying the Note-off Keyboard Depth (Key Off Position) 71
Pedal/[S1] [S2] Buttons Assignments 72
Assigning Functions to Pedals (FC1/FC2 Pedal Assign) 72
Assigning Functions to the [S1] [S2] Buttons (S1/S2 Assign) 73
Assigning Functions to the LAYER LEVEL Sliders (Slider Assign) 73
Specifying the Destination Layer for Multi-Effect Control (MFX Ctrl Dest) 73
Changing the Harmonic Bar Settings (Harmonic Bar) 73
Reverb/Chorus Settings 74
Making Reverb Settings 74
Setting Chorus and Delay 75
Making the Compressor Settings 76
Selecting the Type of Compressor (Type) 76
Detailed Settings of Compressor 76
File Management 77
Saving a Live Set File (LIVE SET Save) 77
Calling Up Live Set Files (LIVE SET Load) 78
Deleting a Live Set File (LIVE SET Delete) 78
Copying a Live Set File (LIVE SET Copy) 79
Deleting a Song (SONG Delete) 80
Copying a Song (SONG Copy) 80
Formatting Memory (Format) 81
Making the Rhythm Settings 82
Adjusting the Tempo (Tempo) 82
Adjusting the Volume (Volume) 82
Changing Patterns (Pattern) 82
Changing the Drum Set (Rhy Set) 82
Selecting the MIDI Output Connector (MIDI Out Port) 82
Selecting the MIDI Output Channel (MIDI Channel) 82
About V-LINK 83
Turning the V-LINK ON/OFF 83
V-LINK Settings 83
Detailed Settings of V-LINK 83
Local ON/OFF 83
Changing Settings Related to Song Playback 84
Selecting the parts that will produce sound 84
Restoring the Settings to the Factory Condition 85
Factory Reset Current 85
Factory Reset All 85

Connecting External MIDI Devices 86
Recording RD-700NX Performances to an External MIDI Sequencer 86
Connecting to an External Sequencer 86
Settings for Recording 86
Recording the Performance 86
Exiting Rec Mode 87
About the Local Switch 87
Playing the RD-700NX's Internal Sound Generator from an External MIDI Device 88
Making Connections 88
Selecting RD-700NX Sounds from an External MIDI Device 88

Connecting to Your Computer 89
Connecting to a Computer via the USB MIDI Connector 89
Switching USB Drivers 90
Changing the USB Memory Setting 90
Using the RD-700NX as a USB MIDI Interface 90

Material 91
Troubleshooting 91
List of Messages 94
Error Messages 94
Other Messages 95
Effect List 96
MFX 96
Chorus 96
Reverb 96

About the Ivory Feel Keyboard 97
Features of an Ivory Feel keyboard 97
Handling 97
Care and Maintenance 97

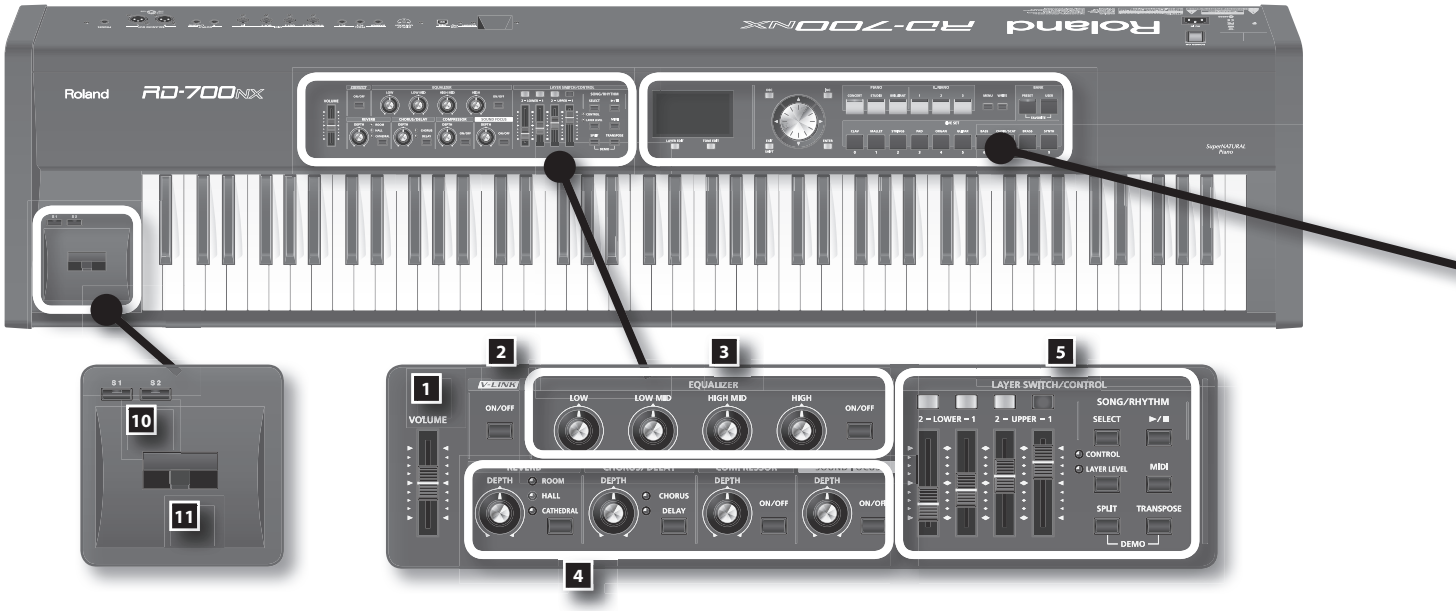
Main Specifications 98

Index 99

Purpose-Oriented Index 102

Panel Descriptions

Front Panel



1. [VOLUME] slider

Adjusts the overall volume that is output from the rear panel OUTPUT jacks, PHONES jack, and BALANCED OUT jacks (p. 18).

2. [V-LINK] Button

Switching this on lets you control external V-LINK compatible video equipment connected to the RD-700NX (p. 83).

3. EQUALIZER

[LOW] Knob
Adjusts the sound's low-frequency range (p. 35).

[LOW MID] Knob
Adjusts the sound's low-midrange frequencies (p. 35).

[HIGH MID] Knob
Adjusts the sound's high-midrange frequencies (p. 35).

[HIGH] Knob
Adjusts the sound's high-frequency range (p. 35).

You can adjust the center frequency of each band by holding down the [EXIT/SHIFT] button and turning the corresponding EQUALIZER knob ([LOW] knob / [LOW MID] knob / [HIGH MID] knob / [HIGH] knob).

EQUALIZER [ON/OFF] Button
Turns the equalizer on/off (p. 35).

4. REVERB, CHORUS/DELAY, COMPRESSOR, SOUND FOCUS

REVERB [DEPTH] Knob
Adjusts the amount of reverb (p. 33).

[REVERB] Button
Changes the reverb type (p. 33).

CHORUS/DELAY [DEPTH] Knob
Adjusts the amount of chorus (p. 33).

[CHORUS/DELAY] Button
Changes the chorus type (p. 33).

COMPRESSOR [DEPTH] Knob
Adjusts the amount of compression (p. 34).

COMPRESSOR [ON/OFF] Button
Turns the compressor on/off (p. 34).

SOUND FOCUS [DEPTH] Knob
Allows you to enhance the sound's definition (p. 34).

SOUND FOCUS [ON/OFF] Button
Turns Sound Focus on/off (p. 34).

5. LAYER SWITCH/CONTROL

LAYER Switch
Turns each LAYER's sound on and off (p. 31).

LAYER LEVEL Slider
Adjusts the volume level for each part (p. 31).

If the CONTROL indicator is lit, the sound will change in real time according to the parameter or function that is assigned (p. 31).

SONG/RHYTHM [SELECT] Button
Displays a screen where you can select a song or rhythm (p. 37, p. 38).

SONG/RHYTHM [▶/■] Button
Start/stops playback of the song or rhythm (p. 37, p. 38)

[CONTROL/LAYER LEVEL] Button
This determines the function of the LAYER LEVEL sliders (p. 73).

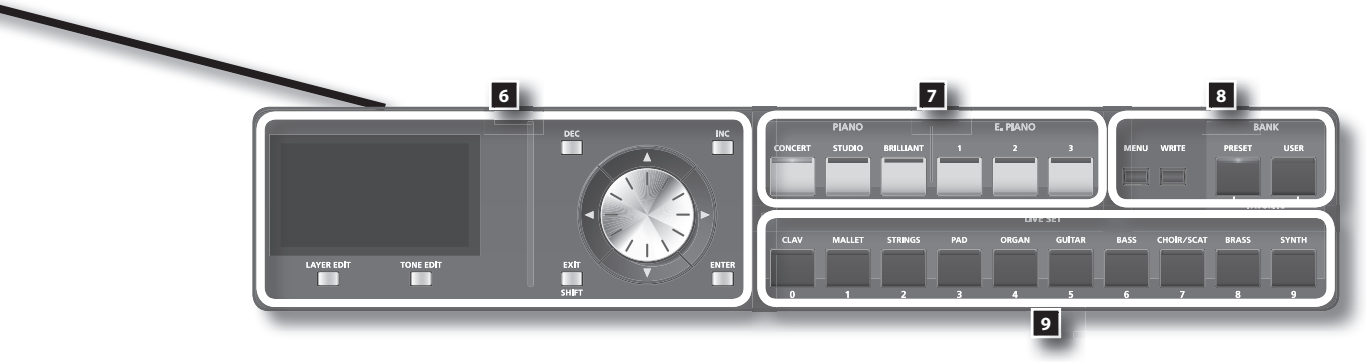
[MIDI] Button
Puts the RD-700NX in control of the external MIDI sound generator (p. 86).

[SPLIT] Button
This button selects "Split mode," whereby the keyboard is divided into two regions, allowing you to play separate sounds with the right and left hands (p. 29).

In addition, you can listen to the demo songs by simultaneously pressing this button and the [TRANSPOSE] button (DEMO PLAY) (p. 25).

[TRANSPOSE] Button
Sets the range of the keyboard to transposed (p. 32).

In addition, you can listen to the demo songs by simultaneously pressing this button and the [SPLIT] button (DEMO PLAY) (p. 25).



6. DISPLAY

This shows the Live Set names and the values of various settings, etc.

[LAYER EDIT] Button
This allows you to change the Layer settings (p. 56).

You can also use this to assign functions in some screens.

[TONE EDIT] Button
This allows you to change the tone settings (p. 54).

You can also use this to assign functions in some screens.

[DEC] Button, [INC] Button
These are used to modify values.

If you keep on holding down one button while pressing the other, the value change accelerates.

VALUE Dial
This is used to modify values.

Cursor [▲] [▼] [◀] [▶] Buttons
Press these to switch pages and to move the cursor.

[EXIT/SHIFT] Button
Pressed to return to a previous screen or to cancel a procedure that is in progress.

Additionally, you can easily call up Edit screens for related parameters for the following functions by holding down this button while pressing buttons, turning knobs, or operating other controllers.

[ENTER] Button
This is used to finalize a value or execute an operation.

7. ONE TOUCH

PIANO [CONCERT] Button, [STUDIO] Button, [BRILLIANT] Button
Selects the optimum settings for piano performances (p. 46).

E. PIANO [1] Button, [2] Button, [3] Button
Selects the optimum settings for E. Piano performances (p. 50).

8. FUNCTION

[MENU] Button
Press this button when you wish to adjust various settings (p. 65).

[WRITE] Button
Stores the current settings to "Live Set" (p. 45).

BANK [PRESET] button
Selects a Live Set from the Preset bank.

BANK [USER] button
Selects a Live Set that was saved in the User bank. Live Sets you edit can be stored in the User bank (p. 45).

9. LIVE SET buttons

These buttons select Live Set categories (p. 27).

When you're in an edit screen, you can use these buttons to enter numerical values.

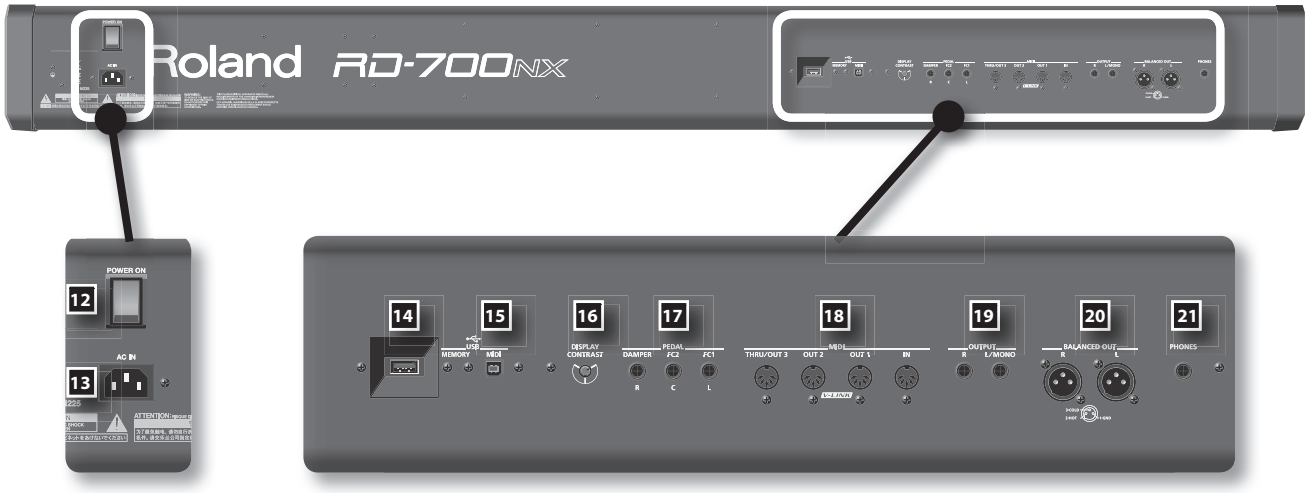
10. [S1] Button, [S2] Button

You can assign various functions to these buttons While performing, you can press these buttons to use the assigned functions.

11. Pitch Bend/Modulation Lever

This allows you to control pitch bend or apply vibrato (p. 34).

Rear Panel



12. [POWER ON] Switch

This switch turns the power on/off (p. 17).

13. AC IN Connector

Connect the included power cord to this connector (p. 14).

14. USB MEMORY Connector

Connect separately sold USB memory or a CD-ROM drive here (p. 18).

Use USB memory or a CD-ROM drive made by Roland.

15. USB MIDI Connector

You can connect this to your computer so that it can exchange performance data with the RD-700NX (p. 89).

16. [DISPLAY CONTRAST] Knob

Adjusts the display's contrast (p. 18).

17. PEDAL Jacks (DAMPER, FC1, FC2)

Connecting the pedal switch provided with the RD-700NX to the DAMPER jack allows you to use the switch as a damper pedal.

With a pedal connected to the FC1 or FC2 jack, you can then assign a variety of functions to the pedal (p. 72).

18. MIDI Connectors (IN, OUT 1, OUT 2, THRU/OUT 3)

Used for connecting external MIDI devices and for transmission of MIDI messages (p. 86).

The THRU/OUT 3 connector's function can be switched to operate either as MIDI THRU or as MIDI OUT (p. 69).

19. OUTPUT L (MONO)/R Jacks

Provide output of the audio signals. These are connected to an amp or other device. For monaural output use the L/MONO jack (p. 15).

20. BALANCED OUT L/R Jacks

Connectors for balanced output of the audio signals. Connect to mixers and other such gear (p. 15).

21. PHONES Jack

A set of headphones can be connected to this jack (p. 15).

Even when headphones are connected, sound will still be output from the OUTPUT jacks and BALANCED OUT jacks.

Placing the RD-700NX on a Stand

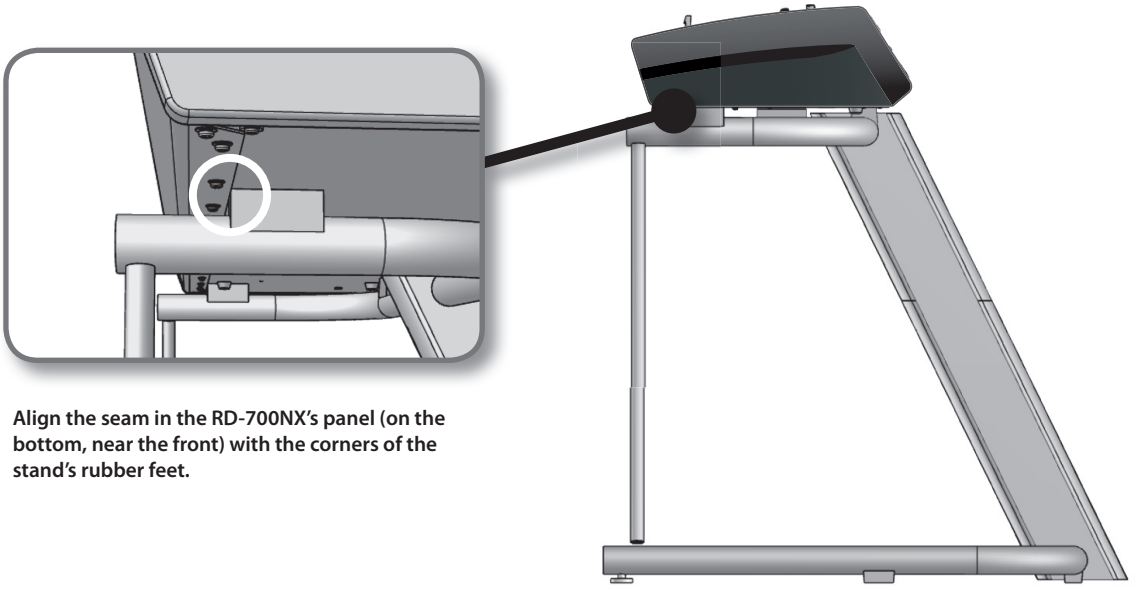
If you place the RD-700NX on a stand, you must use the KS-G8 (sold separately). When placing the RD-700NX on the KS-G8, place it in the position shown below.

NOTE

Using the RD-700NX with any other stand may produce an unstable situation, possibly causing the instrument to fall or overturn, and resulting in injury or damage.

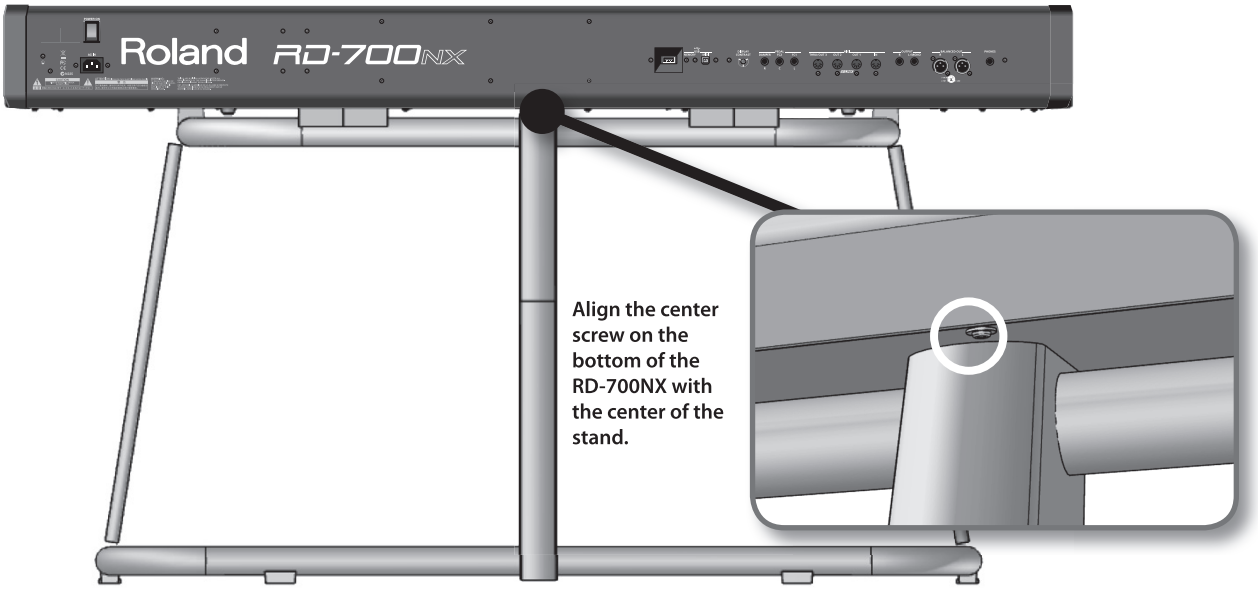
For details on how to assemble the stand, refer to the owner's manual that accompanied the stand.

Seen from the side



Align the seam in the RD-700NX's panel (on the bottom, near the front) with the corners of the stand's rubber feet.

Seen from the rear



Align the center screw on the bottom of the RD-700NX with the center of the stand.

NOTE

When placing the RD-700NX on the stand, be careful not to pinch your fingers between the instrument and the stand.

Connecting the Power Cord

Rear Panel

1. **Before you begin making connections, confirm the following.**

   Is the volume level of the RD-700NX or connected amp turned all the way down?

   Is the power to the RD-700NX or connected amp turned off?

2. **Connect supplied power cord to the AC IN connector of the RD-700NX, and plug the other end into an AC outlet.**

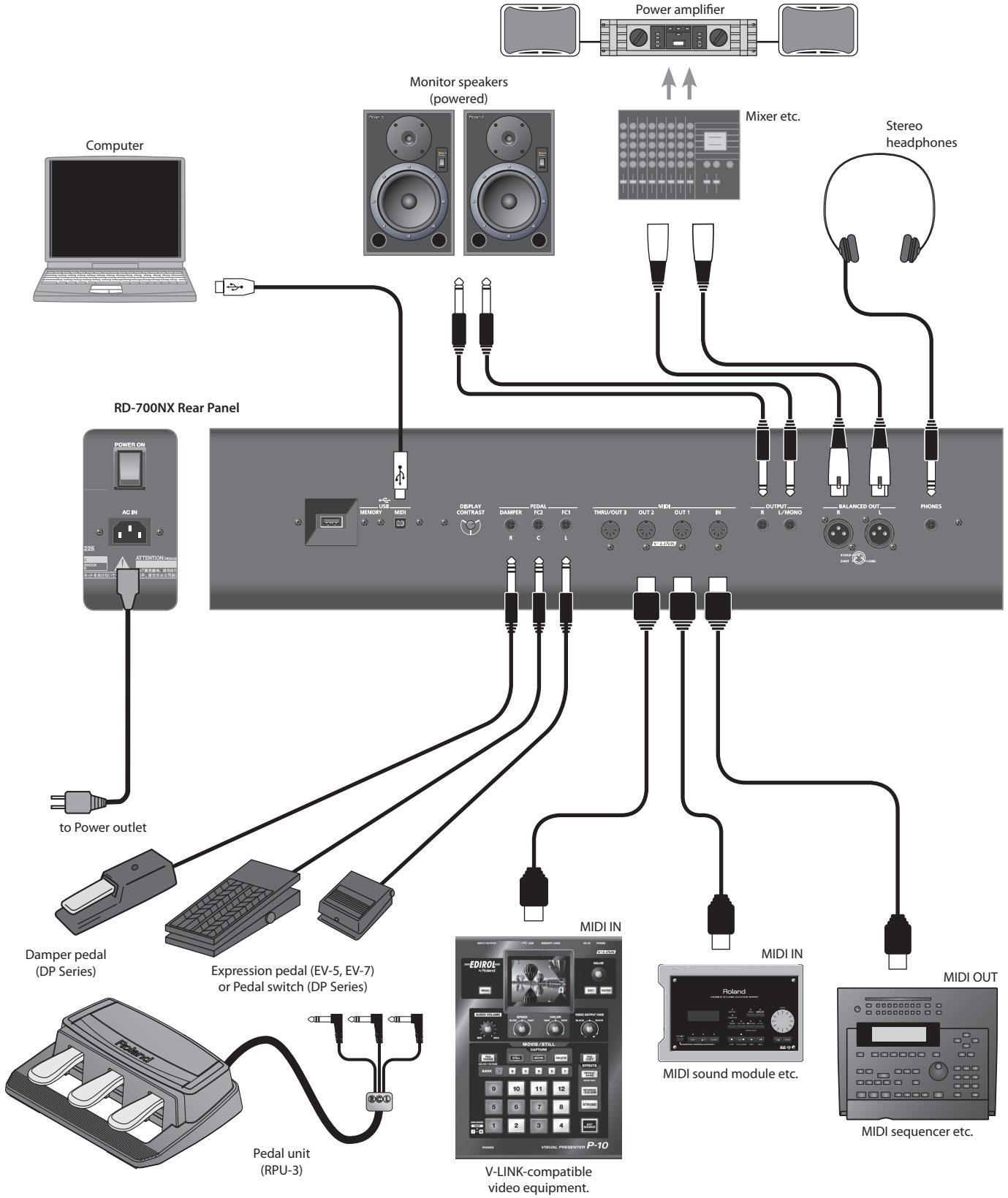
Connecting the External Equipment to RD-700NX

The RD-700NX is not equipped with an amplifier or speakers. In order to produce sound, you need to hook up audio equipment such as a monitor speaker or a stereo set, or use headphones.

*** Audio cables, USB cables, MIDI cables, headphones, expression pedals, and USB memory are not included. Consult your Roland dealer if you need to purchase accessories such as these.**

NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.



1. **Before you begin making connections, confirm the following.**

   Is the volume level of the RD-700NX or connected amp turned all the way down?

   Is the power to the RD-700NX or connected amp turned off?

2. **Connect supplied power cord to the AC IN connector of the RD-700NX, and plug the other end into an AC outlet.**

3. **Connect the RD-700NX and the external devices.**

   Use audio cables to connect audio equipment, such as an amp or speakers.

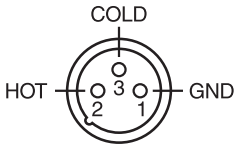
   Use MIDI cables to connect MIDI devices. Use USB cables to connect computer.

   If you are using headphones, plug them into the PHONES jack.

   Connect pedal switches or expression pedals as necessary.

About the Output Jacks

RD-700NX is equipped with balanced (XLR) type jacks. Wiring diagrams for these jacks are shown below. Make connections after first checking the wiring diagrams of other equipment you intend to connect.



NOTE

- Use Stereo headphones.
  Use headphones made by Roland. Using other headphones might not give you enough volume.
- Use only the specified expression pedal (EV-5, EV-7; sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.

MEMO

You can connect a commercially available CD drive (sold separately) to the USB MEMORY connector. You can use a CD drive to play back songs from a CD.

Connecting Pedals

Connect the pedal included with the RD-700NX to one of the PEDAL jacks.

When connected to the DAMPER jack, the pedal can be used as a damper pedal.

Connecting the pedal to the FC1 or FC2 jack allows you to assign a variety of functions to the pedal (p. 57, p. 72).

NOTE

Set the switch on the included pedal to "Continuous" when the pedal is connected.

Turning the Power On and Off

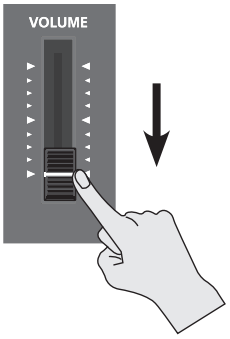
NOTE

Once the connections have been completed (p. 15), turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

Turning On the Power

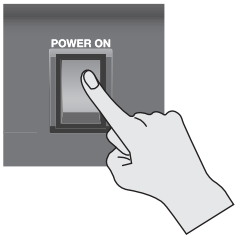
1. Before you turn on the power, use the [VOLUME] slider to minimize the volume.

Also completely turn down the volume of any connected audio device and other equipment.



2. Press the upper portion of the [POWER ON] switch on the back of the RD-700NX to turn on the power.

The unit is powered up, and the display's backlighting comes on.



NOTE

- To prevent incorrect functioning of the Pitch Bend/Modulation Lever (p. 34), refrain from touching the lever while the power to the RD-700NX is turned on.
- This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.
- Always make sure to have the volume level turned down before switching on power. Even with the volume all the way down, you may still hear some sound when the power is switched on, but this is normal, and does not indicate a malfunction.
- In the unlikely event the power is turned off or cut off while Factory Reset (p. 85) is in progress, the data may become corrupted, and it may require additional time for the unit to start up the next time.

3. Turn on the power to connected external devices.

4. Adjust the volume of the connected external devices.

5. Adjust the RD-700NX's volume.

Turning Off the Power

1. Before you switch on the power, turn the volume down all the way by moving the [VOLUME] slider.

Also completely turn down the volume of any connected audio device and other equipment.

2. Turn off the power to connected external devices.

3. Press the lower portion of the [POWER ON] switch on the back of the RD-700NX.

The power is switched off.

NOTE

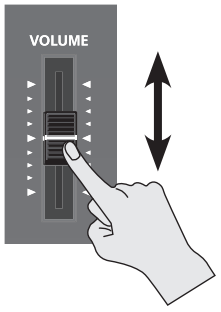
If you need to turn off the power completely, first turn off the [POWER ON] switch, then unplug the power cord from the power outlet. Refer to "Power Supply" (p. 6).

Adjusting the Volume

1. Adjust the volume using the [VOLUME] slider.

Move the slider up to increase the volume, or down to lower it.

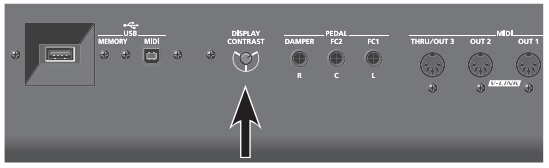
Also adjust the volume of the connected device to an appropriate level.



Adjusting the Display Contrast

The characters in the display may be difficult to view immediately after turning on the power or after extended use; this may also be because of where and how the display is situated. In such instances, adjust the display contrast by turning the [DISPLAY CONTRAST] knob on the rear panel.

Rear Panel



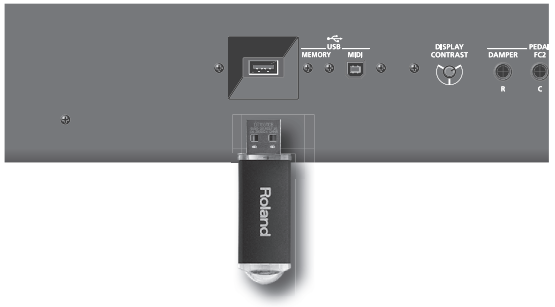
Connecting the USB Memory

You can copy Live Set files and song files to separately sold USB memory for safekeeping.

You can also play back SMF music files that's saved on USB memory, or play audio files from USB memory (p. 38).

1. Connect your USB memory to the USB MEMORY connector located on the RD-700NX's rear panel.

Rear Panel



NOTE

- Never insert or remove a USB memory while this unit's power is on. Doing so may corrupt the unit's data or the data on the USB memory.
- Carefully insert the USB memory all the way in-until it is firmly in place.

MEMO

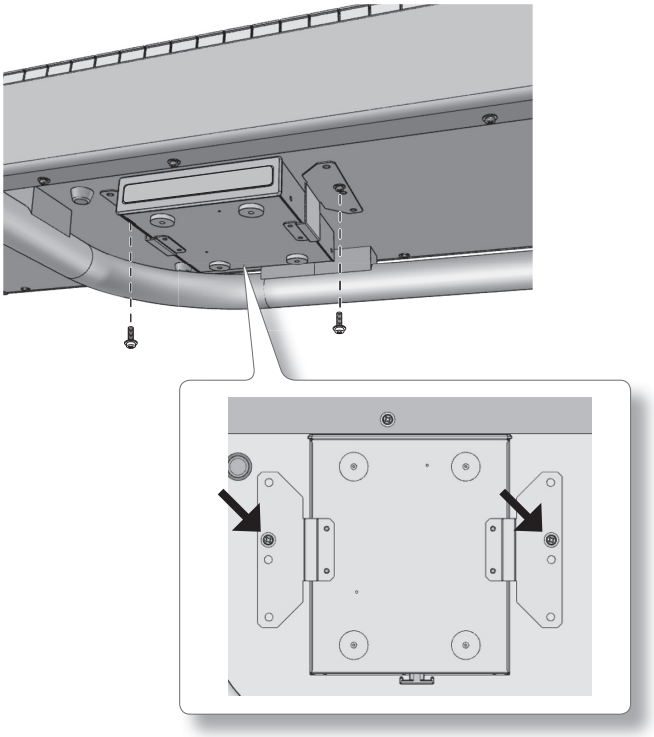
If you're using new USB memory, you must first initialize (format) it on the RD-700NX. For details, refer to "Formatting Memory (Format)" (p. 81).

Connecting the CD Drive

If you're using a stand (KS-G8), you can use the screw holes on the bottom of the RD-700NX to attach a CD drive (sold separately).

MEMO

For information on turning on/off your CD drive and how to insert or remove a CD, refer to the owner's manual that came with your CD drive.



1. Connect the USB cable included with the CD drive to the RD-700NX's USB MEMORY connector.

Rear Panel

NOTE

When connecting the USB cable, make sure that it is oriented correctly, and push it firmly all the way into the connector. Do not use excessive force.

2. Switch on power to the connected CD drive.

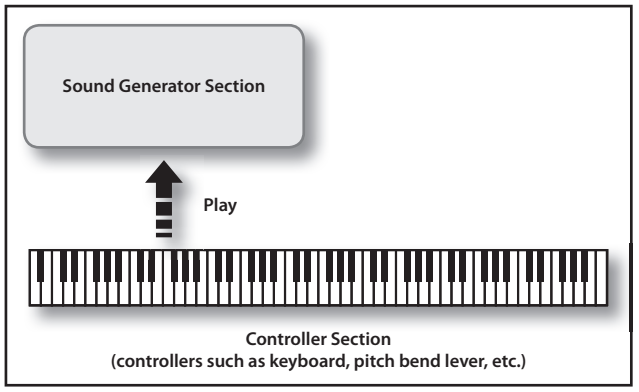
3. Switch on the RD-700NX's power.

NOTE

- Use a CD drive sold by Roland. We cannot guarantee operation if any other CD drive is used.
- CDs that contain both music tracks and data will not play correctly.
- The RD-700NX is capable of playing back only commercial CDs that conform the official standards-those that carry the "COMPACT disc DIGITAL AUDIO" logo.
- The usability and sound quality of audio discs that incorporate copyright protection technology and other nonstandard CDs cannot be guaranteed.
- For details on music discs that incorporate copyright protection technology, please contact the disc manufacturer.
- You cannot save songs to CDs, and you cannot delete songs recorded to CDs. Furthermore, you cannot format CDs.

Basic Organization of the RD-700NX

The RD-700NX can be divided into two sections: a controller section and a sound generator section.



Controller Section

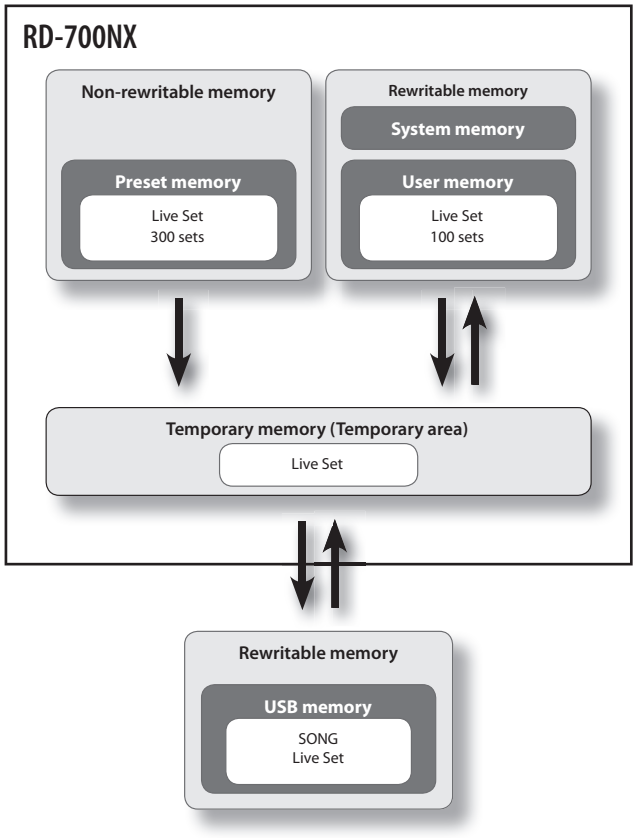
This section includes the keyboard, the Pitch Bend/Modulation lever, the panel knobs, the sliders, and any pedal connected to the rear panel. Actions such as pressing and releasing of keys on the keyboard, depressing a damper pedal, and so forth, are converted to MIDI messages and sent to the sound generator section, or to an external MIDI device.

Sound Generator Section

The sound generator section produces the sound. Here, MIDI messages received from the controller section or external MIDI device are converted to musical signals, which are then output as analog signals from the OUTPUT and PHONES jacks.

About Memory

Memory provides storage locations where Live Sets and other settings are stored. There are three types of memory: "temporary memory," "rewritable memory," and "non-rewritable memory."



Temporary memory

Temporary area

Data for the patch you select via the front panel buttons is called up to this area.

When you play the keyboard or play back the SMF, sounds are produced according to the settings that are in the temporary area. When you edit a patch, the changes you make do not directly modify the data in memory; rather, the data is read into the temporary area, then modified.

The settings in the temporary area will be lost when you turn off the power or call up other settings. If you want to keep the data that's in the temporary area, you must store it into rewritable memory.

Rewritable memory

System memory

System memory contains system parameter settings that specify how the RD-700NX is to operate.

User memory

Live Sets can be stored in user memory.

USB memory (p. 18)

Live Sets and songs can be stored in USB memory in the same way as in user memory.

Non-rewritable memory

Preset memory

The data in preset memory cannot be rewritten.

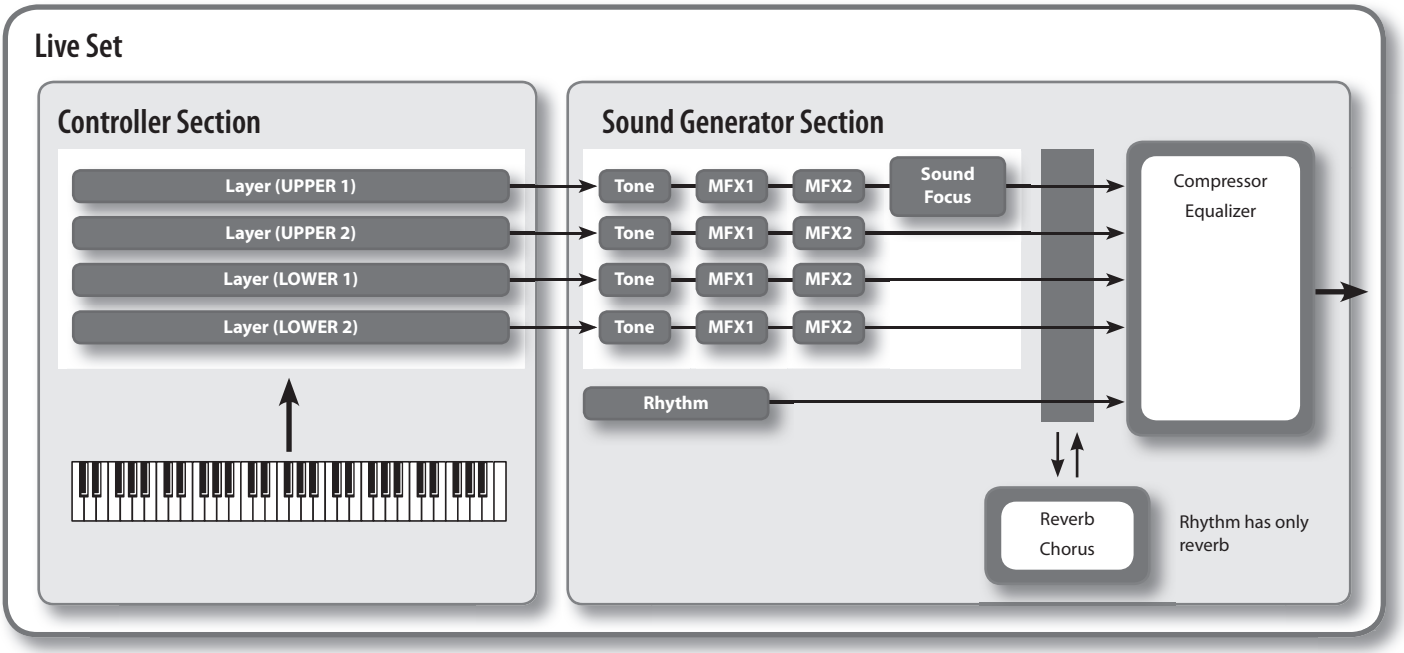
If you've edited data that was recalled from preset memory, you can store it in rewritable memory (user memory or USB memory).

About Live Sets

The RD-700NX lets you store the sounds that you create.

A sound you create is called a "Live Set"; you can use the buttons to recall a Live Set and then play it.

Live Sets are organized into a "preset bank" and a "user bank."



Layer

The RD-700NX features four parts (UPPER 1, UPPER 2, LOWER 1, and LOWER 2) that you can use for freely controlling the Internal parts with the RD-700NX's buttons and keyboard. These four parts that are used for controlling the Internal parts are collectively known as the "Layer."

Furthermore, you can freely control external MIDI sound generators with the RD-700NX in the same manner as with the Layer. You can likewise control the external MIDI sound generator with the four parts (UPPER 1, UPPER 2, LOWER 1, and LOWER 2), with this group of four parts being referred to as the "EXTERNAL Layer." The external MIDI sound generator is assigned to these four parts for control.

Tone

The individual sounds used when playing the RD-700NX are referred to as "Tones." Tones are assigned to each layer.

The Tones also include various groups of percussion instrument assembled into "Rhythm Sets." Each key (note number) of a Rhythm Set will produce a different percussion instrument.

Preset bank

This contains 300 pre-programmed Live Sets.

Although you cannot rewrite the contents of this bank, you are free to create new sounds based on these Live Sets.

User bank

Sounds that you create can be saved in this bank of 100 Live Sets.

For details on how to save a sound, refer to "Storing Settings to Live Sets" (p. 45).

Basic Operation

Main Screens

The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.

ONE TOUCH Screen

When the ONE TOUCH PIANO button or ONE TOUCH E. PIANO button is pressed, setting the RD-700NX to the optimal status for Piano or E. Piano performances, this screen is displayed (p. 26).

Live Set Screen

The currently selected Live Set is displayed (p. 27).

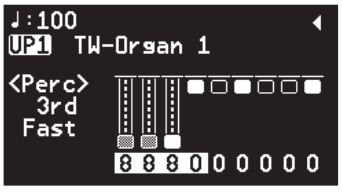
You can edit this Live Set.

Tone Wheel Screen

In the Live Set screen, when any ORGAN Tone "Tone Wheel 1–10" is selected for any of the Layer, this screen is displayed when the Cursor [▶] button is pressed.

The mode when this screen is displayed is called "Tone Wheel mode," and while in this mode you can simulate the creation of sounds using an organ's harmonic bars (p. 42).

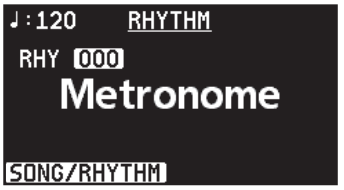
Pressing the Cursor [EXIT/SHIFT] button when this screen is displayed returns you to the Live Set screen.



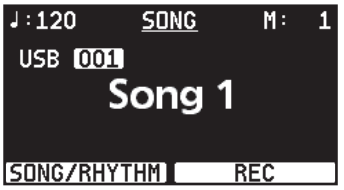
Song/Rhythm Screen

When the SONG/RHYTHM [SELECT] button is pressed, this screen is displayed.

You can change Rhythm patterns, Songs, and the tempo (p. 37, p. 38).



You can also connect USB memory (sold separately) to the USB MEMORY connector and play SMF music files or audio files that you've saved in the USB memory.



If SMF music file is selected, the measure number is shown in the upper right of the screen. If an audio file is selected, the playing time is shown in the upper right of the screen.

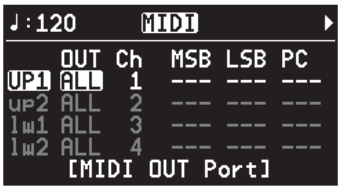
Press the [EXIT] button to return to the Live Set screen.

MIDI Screen

When the [MIDI] button is pressed, and the RD-700NX switches to the mode enabling it to control an external MIDI sound generator.

The status of this button determines whether the RD-700NX's buttons are used to control the INTERNAL Layer, or to control the EXTERNAL Layer.

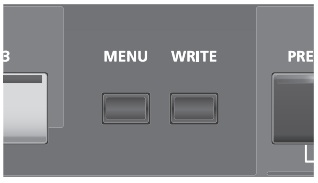
In addition, you can make detailed settings for the MIDI messages to be transmitted to the external sound generator (p. 60).



Special Indications

Indication	Explanation
	When in the Live Set screen, this symbol will be shown in the upper-right part of the screen whenever you select a Live Set that has "TW-Organ 1–10" assigned to any of its layers. Pressing the Cursor [▶] button while this mark is displayed brings up the Tone Wheel screen (p. 42).

About the Function Buttons



[MENU] Button

By pressing the [MENU] button to make the indicator light, you can enter "Edit mode."

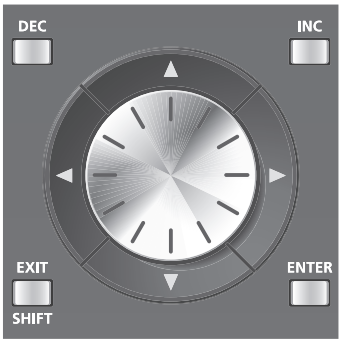
In Edit mode you can make detailed settings for various functions (p. 65).

You can exit Edit mode by pressing the [MENU] button, extinguishing its indicator.

[WRITE] Button

Stores the current settings to "Live Set" (p. 45).

About the Cursor Buttons



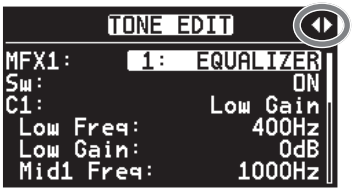
The Cursor buttons are used for switching screens, and for moving to an item whose setting you want to change (by moving the cursor).

In the LAYER EDIT screen, these buttons are used to select the layer.

Moving Between Display Pages

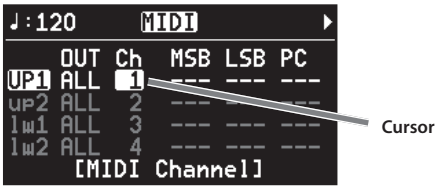
When arrow symbols ("◀" and "▶") appear at the upper right of the display screen, it indicates that there are additional pages in the directions shown by the arrows.

You can switch screens with the Cursor [◀] and [▶] buttons.



Navigating Among Items To Be Set (Cursor)

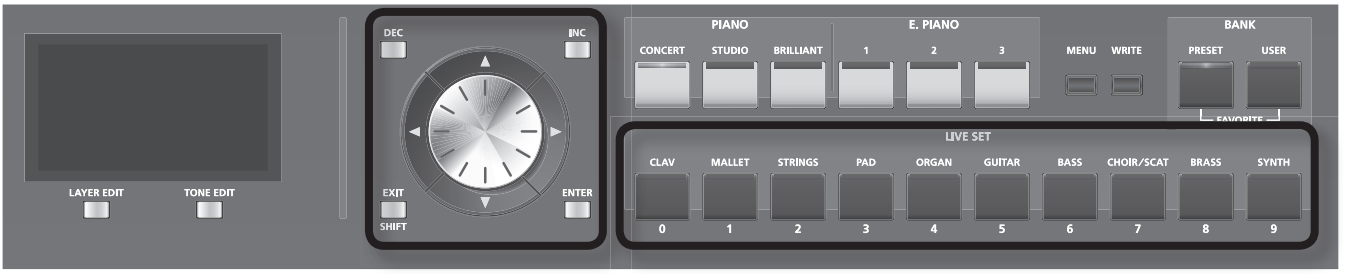
When more than one parameter is present in a screen, the name and value of the parameter to be changed is shown with a box around it. This box is referred to as the "cursor." The cursor is moved with the Cursor buttons.



Additionally, when multiple parameters are presented horizontally in a row, as shown in the MIDI screen, you can get the cursor to move more rapidly by holding down the Cursor button that points in the direction you want the cursor to move while you also press the Cursor button that points in the opposite direction.

Editing a Value

When changing settings values, you can use the [DEC] and [INC] buttons, VALUE dial, or the LIVE SET buttons (numeric keys).



[DEC] Button, [INC] Button

Pressing the [INC] button increases the value, and the [DEC] button decreases it.

Purpose	Panel operation
To continuously change the value	Hold down the [DEC] button or [INC] button.
To rapidly increase the value	While holding down the [INC] button, press the [DEC] button. Conversely, you can rapidly decrease the value by holding down the [DEC] button and pressing the [INC] button.
To set the item to its default value or turn it off	Press the [DEC] button and [INC] button simultaneously.

VALUE Dial

Turn the dial clockwise to increase the value, or counterclockwise to decrease the value.

LIVE SET buttons (Numeric Keys)

In edit screens, you can use the LIVE SET buttons as [0]–[9] buttons to directly specify a numerical value.

When you enter the number, the value will blink. This indicates that the value has not yet been finalized. To finalize the value press the [ENTER] button.

MEMO

Only numerical values can be entered using the numeric keys.

To switch the positive (+) or negative (-) signs for numerical values and make continuous changes in the numerical values, press the [DEC] or [INC] button.

Listening to the Demo (DEMO PLAY)

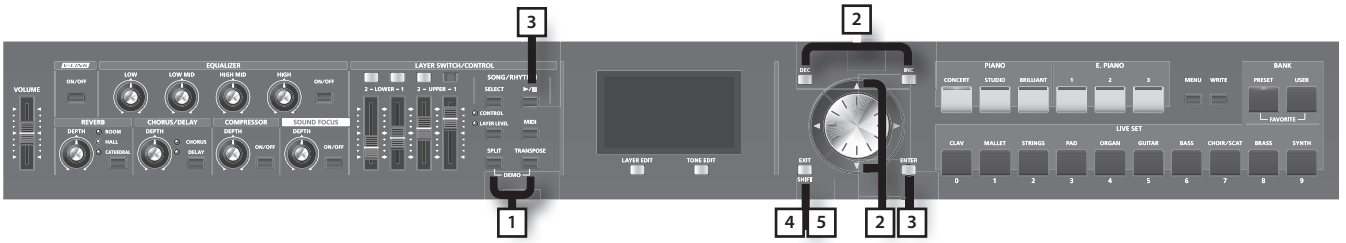
Here's how to listen to these demo songs.

The RD-700NX features the internal demo songs that exhibit the special capabilities of the instrument.

Demo song "Tone Preview" makes effective use of the internal tones. There are seventeen demo songs, and each of the One Touch buttons and LIVE SET buttons corresponds to one of the songs.

NOTE

- All rights reserved. Unauthorized use of this material for purposes other than private, personal enjoyment is a violation of applicable laws.
- No data for the music that is played will be output from MIDI OUT connectors.



MEMO

When you enter Demo mode, the various settings will be in the same state as they are immediately after the RD-700NX is powered up. Store any arrangements of settings that you want to keep in Live Set (p. 45).

1. Hold down the [SPLIT] button and press the [TRANSPOSE] button.

The Demo screen appears.

2. Use the Cursor [▼] [▲] buttons, the [DEC] [INC] buttons, or the VALUE dial to select a demo song.

3. Press the [ENTER] button or the [TONE EDIT] (PLAY) button to start playback of the demo song.

When the last song finishes playing, playback will return to the first song and continue.

4. Press the [EXIT/SHIFT] button or the [LAYER EDIT] (MENU) button to stop a demo song during playback.

MEMO

- If you've selected "Tone Preview," press one of the One Touch buttons or the LIVE SET buttons.
- The demo songs will play consecutively, starting with the song of the button you pressed.
- Pressing a One Touch button or a LIVE SET button during playback stops the song being played, and playback of the newly selected song begins.

5. Press the [EXIT/SHIFT] button or the [LAYER EDIT] (EXIT) button while the song is stopped to finish with the Demo screen.

You will return to the previous screen.

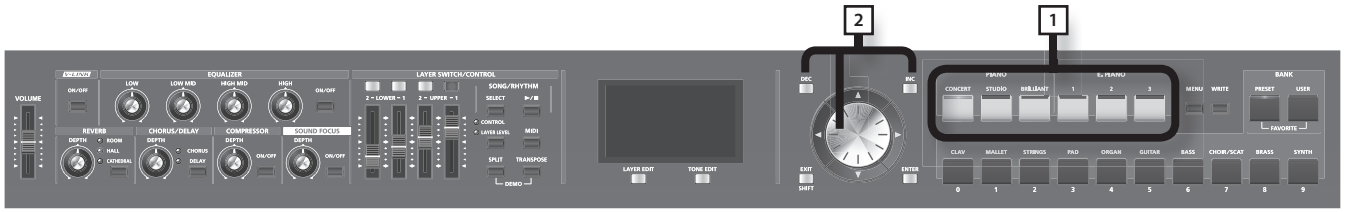
NOTE

The RD-700NX's keyboard will not produce sound while the demo songs are playing.

Piano Performances

Now, try performing with the piano.

The RD-700NX lets you call up the ideal settings for piano performance at any time simply by pressing a button. You can also select your preferred tones and settings and store them to the RD-700NX's buttons.



1. Press the ONE TOUCH PIANO button or the ONE TOUCH E. PIANO button.

Pressing the ONE TOUCH PIANO button sets the entire keyboard to play with the piano tone.

Pressing the ONE TOUCH E. PIANO button sets the entire keyboard to play with the electric piano tone.

NOTE

When you press a ONE TOUCH PIANO button or a ONE TOUCH E. PIANO button, all settings other than the tone settings will be set to their power-up default values. If you want to preserve these settings, store them to a Live Set (p. 45).

2. Use the [DEC] [INC] buttons or turn the VALUE dial to select a variation.

MEMO

By holding down a ONE TOUCH PIANO button or a ONE TOUCH E. PIANO button for several seconds, you can store the variation that's currently selected for that button.
The next time you press that button, the stored variation will be selected.

Making Detailed Settings

With the RD-700NX, you can also make more detailed settings to make the sound even better match your favorite piano performances. Configurations can be stored for each variation. Please refer to each as needed.

- Making Detailed Settings for the Piano Tones → p. 46
- Making Detailed Settings for the E. Piano Tones → p. 50

NOTE

When you edit a setting, an "*" will appear.

If you turn off the power or select a One Touch tone or a Live Set while the "*" is shown, the changes you made will be discarded. If you want to keep the settings, save the Live Set (p. 45).

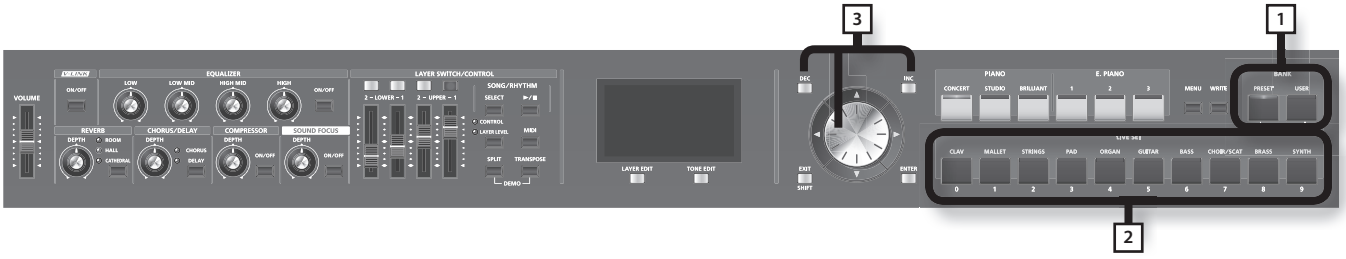
Performing with a Variety of Live Sets

The RD-700NX comes with a many built-in Sounds.

Each one of these individual sounds is called a "Live Set."

Live Sets are assigned to the LIVE SET buttons according to the tone category selected.
Each category has several variations.

Try selecting and performing with a number of different Live Sets.



1. Press the BANK [PRESET] button or the BANK [USER] button to select the bank.

The indicator of the selected button will light.

2. Press any of the LIVE SET buttons to select the category.

The indicator of the selected LIVE SET button will light.

3. Use the [DEC] [INC] buttons or VALUE dial to select the tone.

Play the keyboard, and you will hear the selected Live Set.

NOTE

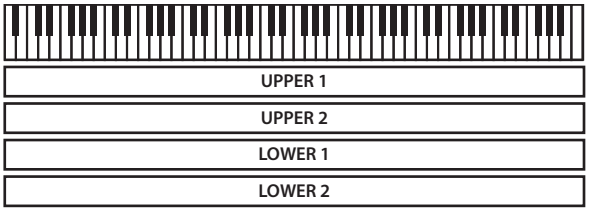
When you edit a setting, an "*" will appear.

If you turn off the power or select a different Live Set when an "*" is shown in the display, the setting changes you've made will be discarded. If you want to keep the settings, save the Live Set (p. 45).

Playing Multiple Tones with the Keyboard

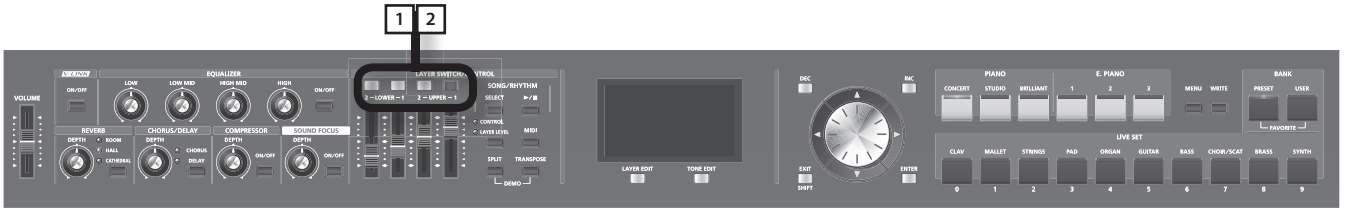
The RD-700NX features four Internal layers (UPPER 1, UPPER 2, LOWER 1, and LOWER 2), and one tone can be assigned to each of these layers.

You can perform using combinations of tones by turning each layer on or off. You can have multiple tones layered together at the same time, and even have different tones played in the left and right parts of the keyboard.



Performing with Layered Tones

You can perform with up to four layered tones applied to the entire keyboard.



1. Press the [UPPER 1] button and [UPPER 2] button, getting the indicators to light.

Try fingering the keyboard.

The Tones for UPPER 1 and UPPER 2 are layered and played.

2. Press the [UPPER 2] button once more, and the indicator light goes out.

The Tones for UPPER 1 played.

Likewise, pressing the [LOWER 1] button and [LOWER 2] button lets you then layer four tones.

Playing Different Tones in Two Different Sections of the Keyboard

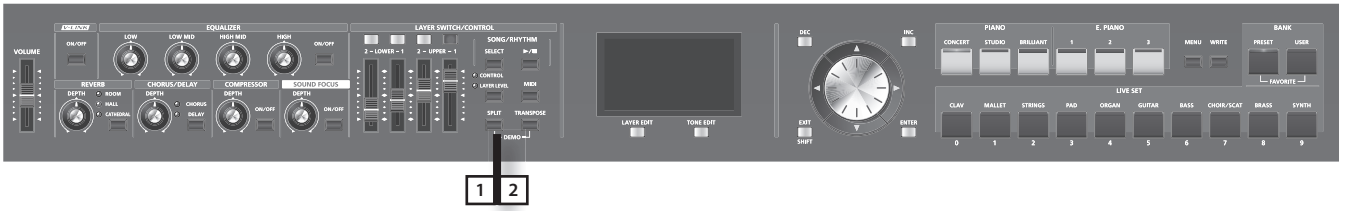
Such a division of the keyboard into right- and left-hand sections is called a "Split," and the key where the division takes place is called the "Split Point."

While in Split mode, a sound played in the right side is called an "UPPER part," and the sound played in the left side is called a "LOWER part." The split-point key is included in the LOWER section.

The Split Point has been set at the factory to "F#3."

MEMO

You can change the split point. Please refer to "Changing the Keyboard's Split Point" (p. 29).

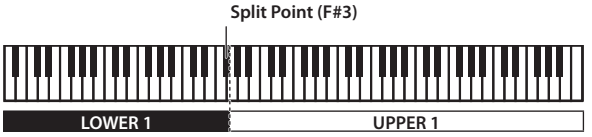


1. Press the [SPLIT] button, getting the indicator to light.

[LOWER 1] button lights.

Try fingering the keyboard.

The UPPER tone plays in the right-hand section of the keyboard, and the LOWER tone plays in the left-hand section.



2. To exit Split mode, press the [SPLIT] button once more, and the indicator light goes out.

Changing the Keyboard's Split Point

You can change the point at which the keyboard is divided (the Split Point) in Split mode.

1. Hold down the [SPLIT] button for several seconds.

Current value of the setting is displayed.

2. While holding down the [SPLIT] button, press the key that is to become the new split point.

When you release the [SPLIT] button, the previous display will reappear.

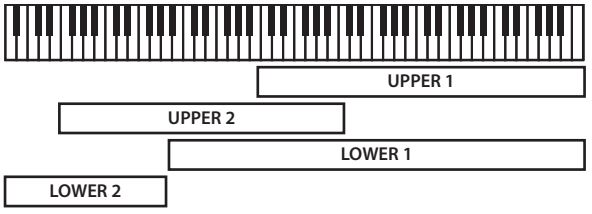
The split-point key is included in the LOWER section.

When you specify the split point, each layer's key range "LWR (Key Range Lower)" (p. 56) and "UPR (Key Range Upper)" (p. 56) will be divided to left and right at the split point, and will be set to the values shown in the table.

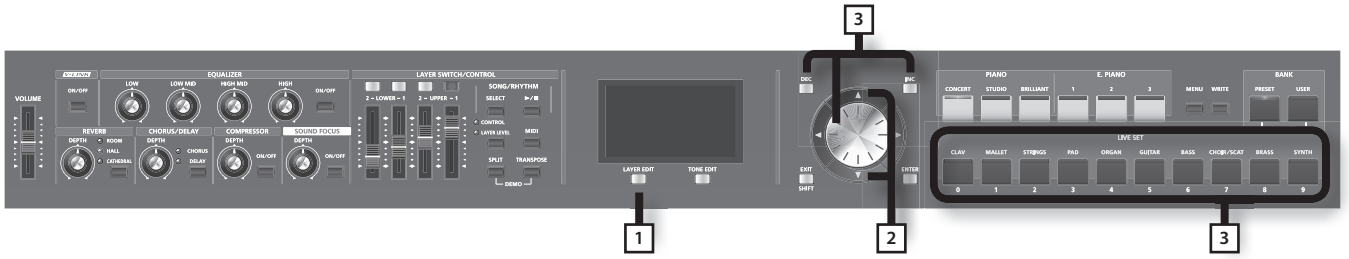
Layer	Range
UPPER 1, UPPER 2	**Split Point** +1–C8
LOWER 1, LOWER 2	A0–**Split Point**

MEMO

- When the split point is changed, the Key Range "LWR (Key Range Lower)" (p. 56), "UPR (Key Range Upper)" (p. 56) value also changes.
- You can change the split point, adjusting it in semitone increments, by holding down the [SPLIT] button and pressing the [DEC] [INC] buttons. You can also use the VALUE dial to change the split point.
- You can freely set whatever key ranges you like to each layer. For details, refer to "LWR (Key Range Lower)" (p. 56), "UPR (Key Range Upper)" (p. 56).

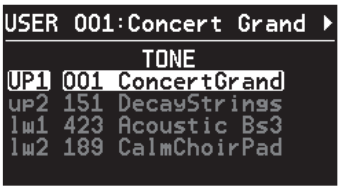


Changing the Tone for a Layer



1. **Press the [Layer EDIT] button to access the layer edit screen.**
2. **Use the Cursor [▼] [▲] buttons to select the layer whose tone you want to change.**

   Layers that have their Layer switch turned off are dimmed in the screen.
3. **Use the LIVE SET buttons to select the tone category, and then use the [DEC] [INC] buttons or the VALUE dial to select a tone.**



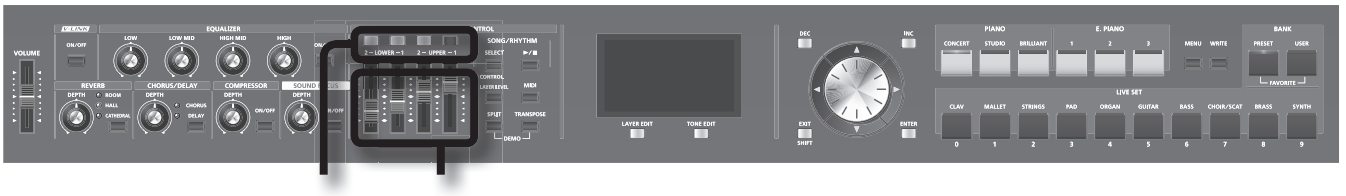
MEMO

If you use the [▼] [▲] buttons to select a layer whose Layer switch is off (unlit), the Layer switch of the selected layer will blink. If you then press the blinking button, that layer's Layer switch will turn on (lit).

Adjusting the Volume Level for Individual Layers

With the RD-700NX, each of the parts that is performed using the internal sound generator is referred to as a Layer.

For each layer (UPPER 1, UPPER 2, LOWER 1, LOWER 2), you can use the Layer switch and Layer LEVEL slider to turn the sound on/off and adjust its volume.



Layer Switch

These buttons turn each layer on/off.

Layers for which the Layer switch indicator is lit (on) will produce sound when you play the keyboard.

Layers for which the Layer switch indicator is unlit (off) will not produce sound even if you play the keyboard.

Each Layer switch will alternately turn on/off each time it is pressed.

Layer LEVEL Slider

Adjusts the volume of an individual layer.

When a layer's Layer switch indicator is not lighted, no sound is produced for the layer even when the slider is moved.

MEMO

Use the [VOLUME] slider when adjusting the overall volume level (p. 18).

NOTE

If the CONTROL indicator is lit, you can't use the Layer LEVEL sliders to adjust the volume (p. 73).

Transposing the Key of the Keyboard (TRANSPOSE)

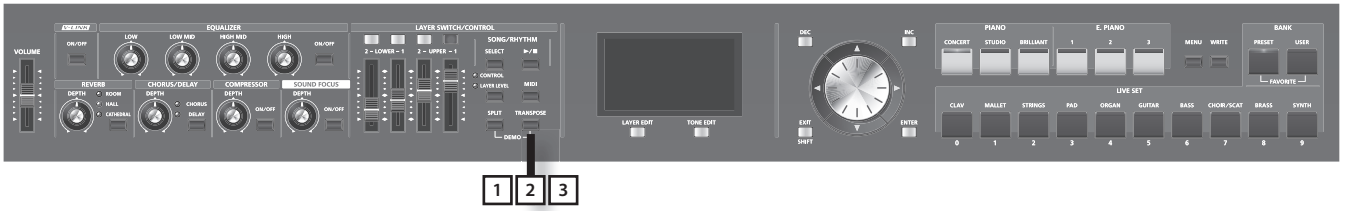
You can transpose performances without changing the keys you are playing, as well as change the pitch by an octave. This feature is called "Transpose."

This is a convenient feature to use when you want to match the pitch of the keyboard performance to a vocalist's pitch, or perform using the printed music for trumpets or other transposed instruments.

You can adjust the transpose setting in semitone steps over a range of -48–0–+48 relative to C4.

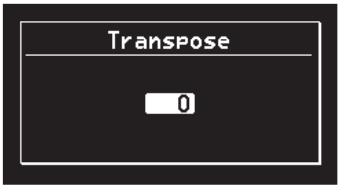
NOTE

Note messages from MIDI IN connector will not be transposed.



1. Hold down the [TRANSPOSE] button for several seconds.

A screen such as the following appears, and the current value of the setting is displayed.



2. Hold down the [TRANSPOSE] button and press a key.

If you press the C4 (middle C) key, the transpose amount will be set to "0."

For example, to have "E" sound when you play "C" on the keyboard, hold down the [TRANSPOSE] button and press the E4 key. The degree of transposition then becomes "+4."

When you release the [TRANSPOSE] button, the previous display will reappear.

When the amount of transposition is set, the Transpose function switches on, and the [TRANSPOSE] button lights up. When the transpose value is set to "0," the button's indicator will remain dark even if you press the [TRANSPOSE] button.

MEMO

You can also transpose by holding down the [TRANSPOSE] button and using the [DEC] [INC] buttons or the VALUE dial.

Even when the Transpose function is turned on, the Split Point remains unchanged (p. 29).

3. To turn off Transpose, press the [TRANSPOSE] button so that its indicator goes off.

The next time [TRANSPOSE] button is pressed, the sound is transposed by an amount corresponding to the value set here.

MEMO

You can set the degree of transposition for each of the Layer individually. For details, refer to "TRA (Transpose)" (p. 56).

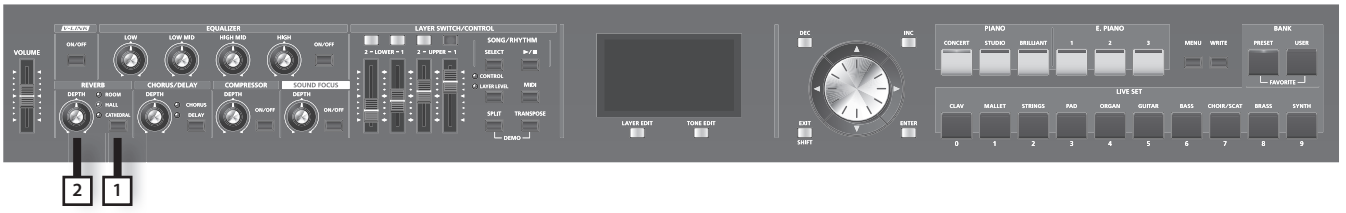
NOTE

If the transpose amount is 0, the [TRANSPOSE] button will not turn on even if you press it.

Adding Reverberation to the Sound (REVERB)

The RD-700NX can apply a reverb effect to the notes you play on the keyboard.

Applying reverb adds pleasing reverberation to what you play, so it sounds almost as if you were playing in a concert hall.



1. Press the [REVERB] button.

The reverb type switches each time you press the [REVERB] button.

MEMO

Types of reverb other than those listed can be selected in "Reverb Type" (p. 74) of the "3. Effects" Edit screen. In this case, the [REVERB] button's indicator corresponding to the selected type flashes.

TYPE	Explanation
OFF (unlit)	No reverb is used.
ROOM	Simulates the reverberation of a room.
HALL	Simulates the reverberation of a large concert hall.
CATHEDRAL	Simulates the reverberation of a cathedral.

2. Adjust the REVERB [DEPTH] knob to adjust the amount of reverb effect to be applied.

Rotating the knob clockwise applies a deeper reverb, and rotating it counterclockwise applies less reverb.

NOTE

When the Layer EDIT's "Reverb Amount" setting is set to "0," then no effect is applied, even when the REVERB [DEPTH] knob is turned (p. 56).

Adding Breadth to the Sound (CHORUS/DELAY)

You can apply a chorus and delay effect to the notes you play on the keyboard.

By adding the chorus and delay effect, you can give the sound greater dimension, with more fatness and breadth.

1. Press the [CHORUS/DELAY] button.

The chorus type switches each time you press the [CHORUS/DELAY] button.

MEMO

Types of chorus other than those listed can be selected in "Chorus Type" (p. 75) of the "3. Effects" Edit screen. In this case, the [CHORUS/DELAY] button's indicator corresponding to the selected type flashes.

TYPE	Explanation
OFF (unlit)	Chorus and Delay is not used.
CHORUS	You can give the sound greater dimension, with more fatness and breadth.
DELAY	This effect delays the sound to produce an echo-like effect.

2. Adjust the CHORUS/DELAY [DEPTH] knob to select the amount of chorus effect to be applied.

Rotating the knob clockwise applies a deeper chorus, and rotating it counterclockwise applies less chorus.

NOTE

When the Layer EDIT's "Chorus Amount" setting is set to "0," then no effect is applied, even when the CHORUS/DELAY [DEPTH] knob is turned (p. 56).

Changing the Sound's Pitch in Real Time

While playing the keyboard, move the lever to the left to lower the pitch, or to the right to raise the pitch. This is known as Pitch Bend.

You can also apply vibrato by manipulating the lever away from you. This is known as Modulation.

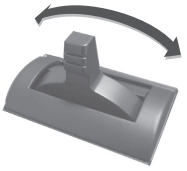
If you move the lever away from you and at the same time move it to the right or left, you can apply both effects simultaneously.

NOTE

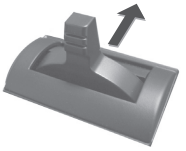
The effect obtained when you move the lever may differ according to the tone being used. Additionally, the effect applied by moving the lever is predetermined for each tone, and cannot be changed.

MEMO

When the Tone Wheel screen is shown, moving the pitch bend lever to left or right will switch the Rotary effect between fast and slow. For details, refer to "Simulating the Creation of Organ Tones" (p. 42).



Pitch Bend

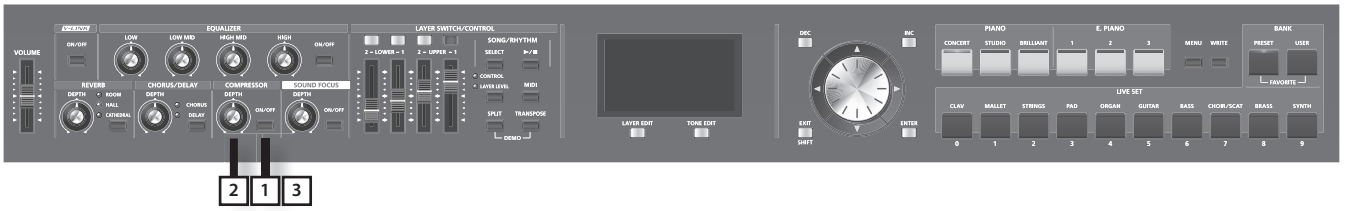


Modulation

Adding Liveliness to the Sound (COMPRESSOR)

Switching on the Compressor suppresses differences in volume for a more consistent sound.

This is set to OFF when the power is turned on.



1. **Press the COMPRESSOR [ON/OFF] button, getting its indicator to light.**
2. **Use the COMPRESSOR [DEPTH] Knob to adjust the depth of the effect.**

   Turning the knob toward the right will deepen the effect, and turning it toward the left will lessen the effect.
3. **To cancel this function, press the COMPRESSOR [ON/OFF] button once more, extinguishing the indicator.**

NOTE

Sounds may become distorted with certain tones.

MEMO

You are free to edit the compressor settings. Refer to "Making the Compressor Settings" (p. 76).

Enhancing the sound's definition (SOUND FOCUS)

The sound can be made more prominent by turning on Sound Focus.

1. **Press the SOUND FOCUS [ON/OFF] button, getting its indicator to light.**
2. **Use the SOUND FOCUS [DEPTH] Knob to adjust the depth of the effect.**

   Turning the knob toward the right will deepen the effect, and turning it toward the left will lessen the effect.
3. **To cancel this function, press the SOUND FOCUS [ON/OFF] button once more, extinguishing the indicator.**

NOTE

Sounds may become distorted with certain tones.

MEMO

The Sound Focus Type setting lets you specify the Sound Focus effect. For details, refer to "Making Tone Settings" (p. 54).

Adjusting the Levels of Each Frequency Range (EQUALIZER)

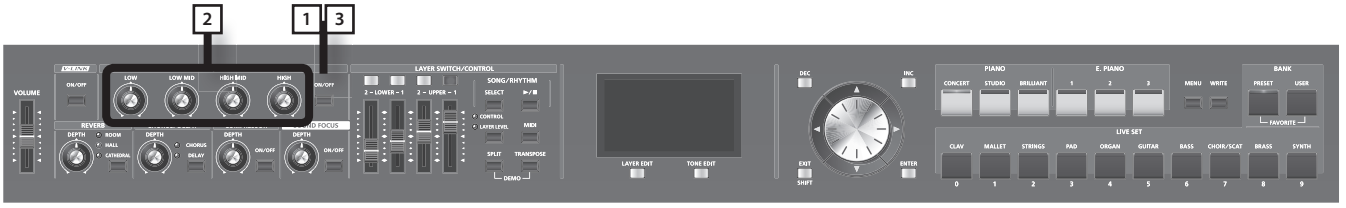
The RD-700NX is equipped with a four-band equalizer.

You can use the EQUALIZER [LOW] knob, [LOW MID] knob, [HIGH MID] knob, and [HIGH] knob to adjust the level of each frequency range.

By holding down the [EXIT/SHIFT] button and turning the corresponding knob, you can adjust the center frequency of each frequency range.

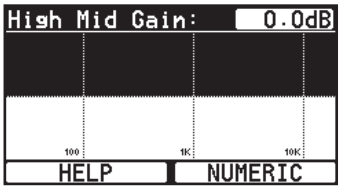
NOTE

Equalization is applied to the overall sound output from the OUTPUT jacks.



1. Press the EQUALIZER [ON/OFF] button to make its indicator light.

A screen like the one shown below appears, and the equalizer is turned on.

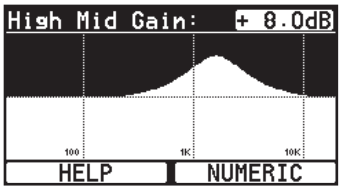


2. Turn the knobs to adjust the levels and the frequency in each range.

Rotating a EQUALIZER knob ([LOW] knob, [LOW MID] knob, [HIGH MID] knob, [HIGH] knob) in the negative direction cuts the level of that frequency range; rotate it in the positive direction boost the level of that range.

In addition, holding down the [EXIT/SHIFT] button and turning a knob toward the negative direction will lower the frequency, and turning it toward the positive direction will raise the frequency.

GRAPHIC

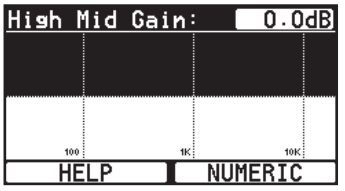


NUMERIC

You can press the [TONE EDIT] (NUMERIC)button to get a numerical reading for the value of the setting. Pressing the [TONE EDIT] (NUMERIC) button toggles you between "NUMERIC" and "GRAPHIC" as the format for what you see indicated in the screen.

The way settings are made differs depending on the format used, as follows:

When the Graphic format is used



- Slightly adjust the knob for the range in which you want to change the value to move the cursor.
- Press the Cursor [◀] [▶] buttons to adjust the frequency.
- Press the Cursor [▼] [▲] buttons to adjust the Q.

When the Numeric format is used

- Press the Cursor [▼] [▲] [◀] [▶] buttons to move the cursor.
- Press the [DEC] [INC] buttons to change the value.
- Repeatedly press the [Layer EDIT] (BAND) button to step through the frequency ranges for editing.
- In the low range (LOW) and high range (HIGH) screens, you can switch the equalizer type.

Parameter	Value
Type	Shelving, Peaking

3. To turn the equalizer off, press the EQUALIZER [ON/OFF] button, extinguishing its indicator.

MEMO

You can set the RD-700NX so that the equalizer settings are not changed when you change Live Sets (p. 44). Refer to"Preventing Equalizer Settings from Being Switched (EQ Mode)" (p. 67).

NOTE

Sounds may be distorted with certain knob settings. If this occurs, adjust the Input Gain on the upper of the "NUMERIC" screen.

Disabling the Button

By engaging the Panel Lock function, you can disable panel functions. This prevents settings from being changed inadvertently on stage or in other such situations.

However, you'll still be able to operate the following buttons and knobs even while Panel Lock is in force.

- [VOLUME] slider
- [DISPLAY CONTRAST] knob
- Pitch Bend/Modulation lever
- Pedals
- ONE TOUCH PIANO buttons
- ONE TOUCH E. PIANO buttons
- [EXIT/SHIFT] button

1. While holding down the [MENU] button, and press the [ENTER] button.

A screen like the one shown at right will appear.

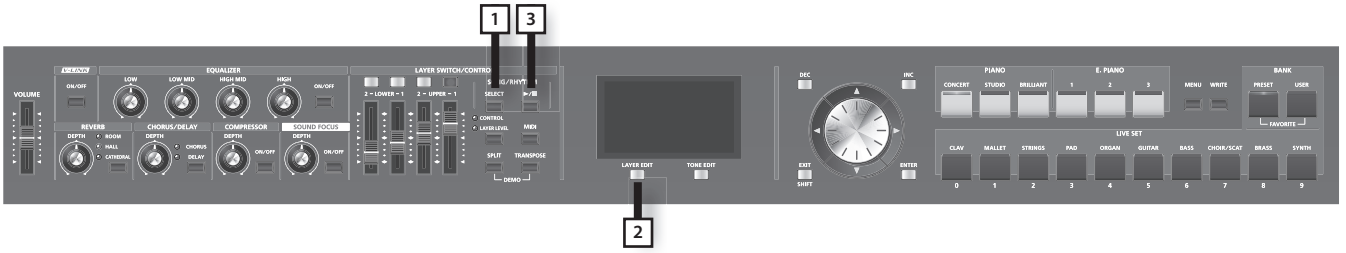
2. Press the ONE TOUCH PIANO buttons, the ONE TOUCH E. PIANO buttons, or the [EXIT/SHIFT] button to cancel Panel Lock.

MEMO

You can assign the Panel Lock function to the [S1] button or [S2] button. Refer to "Assigning the [S1] [S2] buttons When S1/S2 Mode is Set to "SYSTEM"" (p. 68).

Playing Rhythm

The RD-700NX features internal drum patterns complementing Jazz, Rock, and other various musical genres. These drum patterns are referred to as "Rhythms."



1. **Press the [SELECT] button to make the button indicator light.**

   The SONG/RHYTHM screen will appear.

2. **Press the [Layer EDIT] (SONG/RHYTHM) button to access the RHYTHM screen.**

   Each time you press the [Layer EDIT] (SONG/RHYTHM) button, you'll alternate between the SONG screen and the RHYTHM screen.

3. **Press the [▶/■] button so it's lit; the rhythm will begin sounding.**

   When you press the [▶/■] button once again to turn off its light, the rhythm will stop.

MEMO

If you press the [Layer EDIT] (SONG/RHYTHM) button to switch to the SONG screen while a rhythm is playing, the rhythm will stop.

Changing Rhythm Tempos

1. **In the Rhythm screen, press the Cursor [▲] button to move the cursor to the tempo indication in the top line of the screen.**
2. **Use the [DEC] [INC] buttons or VALUE dial to change the tempo.**

   The Rhythm are played at the selected tempo.

MEMO

The way Rhythm is played and the tempo display may differ with some Rhythm Patterns.

If you press the [MENU] button and then choose "6. Rhythm," you'll be able to edit a variety of other settings in addition to the rhythm's tempo and pattern. For details, refer to "Making the Rhythm Settings" (p. 82).

Changing the Rhythm Pattern

You can select the way a Rhythm is played (the pattern) to match a variety of different musical genres.

1. **In the RHYTHM screen, use the cursor [▼] [▲] buttons to move the cursor to the rhythm number shown in the screen.**
2. **Use the [DEC] [INC] buttons or VALUE dial to change the patterns.**

   The rhythm's pattern will change.

3. **To stop the rhythm, press the [▶/■] button so its indicator is off.**

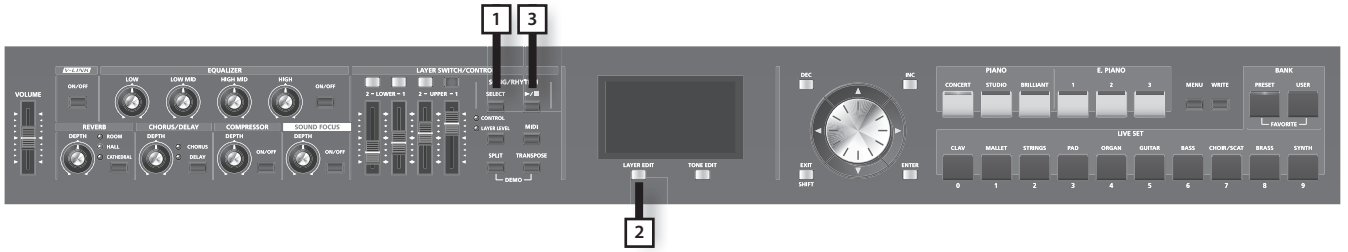
Playing the Songs

Here's how to play back SMF music files, audio data, or songs from a CD.

MEMO

You can play songs that are saved on USB memory (sold separately). For details, refer to "Connecting the USB Memory" (p. 18).

If you want to connect a separately sold CD drive and play back songs from a CD, refer to the owner's manual of your CD drive.



1. **Press the [SELECT] button to make the button indicator light.**

   The SONG/RHYTHM screen will appear.

2. **Press the [Layer EDIT] (SONG/RHYTHM) button to access the SONG screen.**

   Each time you press the [Layer EDIT] (SONG/RHYTHM) button, you'll alternate between the SONG screen and the RHYTHM screen.

3. **Press the [▶/■] button so it's lit; the song will begin playing.**

   When you press the [▶/■] button to turn off its light, the song will stop playing.

NOTE

Even if you change the Live Set while a song is playing, the tempo won't change.
If you change the Live Set while song playback is stopped, the tempo will be changed to the tempo that is stored in the Live Set.

Selecting the Song

1. **In the SONG screen, use the [▼] [◀] buttons to move the cursor to the media indication in the screen.**
2. **Use the [DEC] [INC] buttons or the VALUE dial to select the desired media.**

Type	Explanation
INT	Songs in the RD-700NX's internal memory
USB	Songs in USB memory connected to the USB MEMORY connector Songs on a CD in a CD drive connected to the USB MEMORY connector

3. **Press the Cursor [▶] button to move the cursor to Song number.**
4. **Use the [DEC] [INC] buttons or the VALUE dial to select a song.**
5. **Press the [▶/■] button so it's lit; the song will begin playing.**

When Selecting Songs in Folders

1. **Use the [DEC] [INC] buttons or the VALUE dial to select the folder containing the song you want to play back.**

   (folder) icon is shown.

2. **Press the [ENTER] button.**

   The songs in the folder will be displayed.

3. **Use the [DEC] [INC] buttons or the VALUE dial to select a song.**

   To exit the folder, use the [DEC] [INC] buttons or VALUE dial to select "up," then press the [ENTER] button.

NOTE

If a single folder contains 500 or more files and folders, some files or folders may not be displayed.

MEMO

Song number "000" is programmed with a Preset song.
Enjoy performing on the keyboard along with this song as it is played back.

Changing Song Tempos

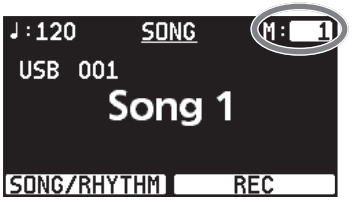
1. **In the SONG screen, press the Cursor [▲] button or [◀] button to move the cursor to the tempo indication in the top line of the screen.**

   If an audio file is selected, the value will be indicated as a percentage.

2. **Use the [DEC] [INC] buttons or the VALUE dial to change the tempo.**

   The song are played at the selected tempo.

Fast-forwarding or Rewinding a Song



1. **In the SONG screen, press the Cursor [▲] button or [▶] button to move the cursor to the measure indication in the upper right of the screen.**

   If an audio file is selected, the indication will be the playback time.

2. **Use the [DEC] [INC] buttons or the VALUE dial to change the value.**

   The playback position will change as shown by the indication.

Return to the Beginning of the Song

1. **In the SONG screen, hold down the [EXIT/SHIFT] button and press the [DEC] button.**

Caution when Playing Back Audio Files

Playing back an MP3 file or changing the playback tempo of an audio file places a significant processing burden on the RD-700NX, and in some cases may cause it to be unable to completely process all of the performance data from the keyboard.

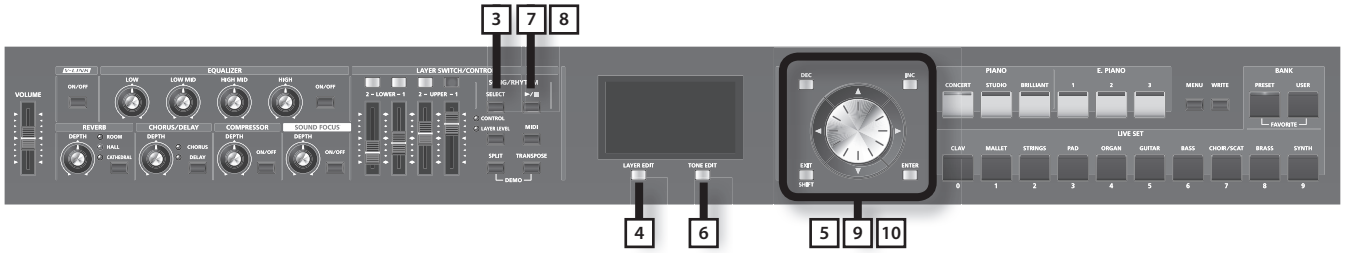
If this occurs, you may be able to solve the problem by taking the following actions.

- Use WAV format data rather than MP3 format data
- Return the song tempo to its original setting (to 0%)

Recording Audio

The RD-700NX lets you easily record your performance as an audio file.

You can then play back the recording to evaluate your performance.



Getting ready to record

NOTE

You must not disconnect the USB memory.

1. **Connect your USB memory to the external memory connector (p. 18).**
2. **Select the tone that you want to play (p. 27).**
3. **Press the [SELECT] button.**
4. **Press the [Layer EDIT] (SONG/RHYTHM) button to access the SONG screen.**
5. **Press the [TONE EDIT] (REC) button.**

   The display will indicate "New Song."

   The [TONE EDIT] (REC) button will light, the [▶/■] button will blink, and the RD-700NX will enter recording-standby mode.

   If you decide to cancel recording, press the [TONE EDIT] (STOP) button.

Starting/stopping recording

6. **Press the [▶/■] button.**

   The [▶/■] button will light, and recording will begin.

7. **Press the [▶/■] button.**

   Recording will stop, and a screen will appear, allowing you to rename the song.
   You can also stop recording by pressing the [TONE EDIT] (REC) button.

8. **Use the cursor [◀][▶] buttons to move the cursor to the position where you want to enter a character.**
9. **Use the [DEC] [INC] buttons or the VALUE dial to enter the desired name.**

   Pressing the [Layer EDIT] (DELETE) button will delete one character, and pressing the [TONE EDIT] (INSERT) button will insert one character of blank space.

   MEMO

   You can also use the LIVE SET buttons to specify and enter characters directly.

10. **Repeat steps 3–4 to enter the desired name.**

    By pressing the [EXIT/SHIFT] button, you can save the song to USB memory without changing its name.

11. **Press the [ENTER] button to confirm the name.**

    The song will be saved.

NOTE

Never disconnect the USB memory while the screen indicates "Executing..."

Applying Effects to the Sound (MFX)

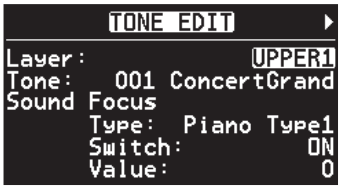
In addition to chorus (p. 33) and reverb (p. 33), the RD-700NX also allows you to apply "multi-effects" to sounds. Multi-effects provides a collection of 84 different effects, such as distortion and rotary, from which you can choose.

You can simultaneously use two multi-effects for each layer; they are referred to as MFX 1 and MFX 2.

The factory settings have a suitable effect assigned to each of the tones.

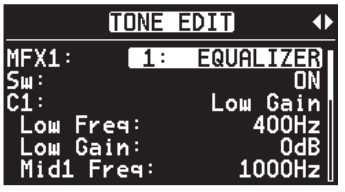
1. **Access the Live Set screen (p. 27).**
2. **Press the [TONE EDIT] button.**

   The [TONE EDIT] button will light, and the TONE EDIT screen will appear.



3. **Use the cursor [◀] [▶] buttons to choose MFX 1 or MFX 2.**
4. **Use the cursor [▼] [▲] buttons to move the cursor to the parameter that you want to edit.**
5. **Use the [DEC] [INC] buttons or the VALUE dial to set the desired value.**
6. **When you've finished editing, press the [TONE EDIT] button so its indicator goes out.**

   You will return to the Live Set screen.



NOTE

Effects are not applied to Tones for which the TONE EDIT MFX 1/MFX 2 settings are set to "0 THRU" (p. 54).

MEMO

You can switch the multi-effect on/off and adjust its depth for the tone of the currently selected layer. By switching layers, you can adjust the tone settings for each layer (p. 30).

Simulating the Creation of Organ Tones

When any of the "TW-Organ 1–10" Tones is selected for any of the layer, you can perform in "Tone Wheel mode," in which the creation of organ sounds is simulated.

An organ features nine "harmonic bars" that can be drawn in and out, and by using the bars in different combinations of positions, a variety of different tones can be created. Different "Feet" are assigned to each bar, with the pitches of the sounds being determined by these "Feet." You can simulate the creation of tones using the harmonic bars by assigning Feet to the Layer LEVEL sliders.

While there are only four Layer LEVEL sliders, you can switch the Feet setting by turning the Layer switch buttons on and off, thus allowing you to assign eight Feet settings to the sliders.

What Are "Feet?"

Feet basically refers to the lengths of pipe used in pipe organs. The length of pipe used to produce the reference pitch (the fundamental) for the keyboard is eight feet. Reducing the pipe to half its length produces a pitch one octave higher; conversely, doubling the pipe length creates a pitch one octave lower. Therefore, a pipe producing a pitch one octave below that of the reference of 8′ (eight feet) would be 16′; for one octave above the reference, the pipe would be 4′, and to take the pitch up yet another octave it would be shortened to 2′.

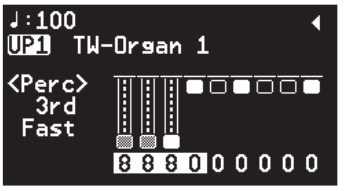
1. Access the Live Set screen (p. 27).

2. Select a Live Set to which one of the "TW-Organ 1–10" tones is assigned.

3. Press the Cursor [▶] button.

The Tone Wheel screen will appear.

This Tone Wheel screen appears only when a Tone Wheel Tone is selected for one of the Layer.



4. When the Layer LEVEL sliders are moved, the harmonic bars move in the display, and the tone changes.

By pressing the Layer switch buttons on and off, you can adjust the sounds for other Feet.

If the cursor is moved to the value at the bottom of the screen, you can adjust the sounds for Feet with the [DEC] [INC] buttons.

5. Press the Cursor [▼] [▲] buttons to move the cursor to "Perc" and press the [DEC] [INC] buttons to change the value.

Perc (Percussion) adds an attack-type sound to the beginning of the note to give the sound more crispness. The attack sound changes according to the value.

Setting	Description
OFF	No percussion is added.
2nd	Percussion sounds at a pitch one octave above that of the key pressed.
3rd	Percussion sounds at a pitch an octave and a fifth above that of the key pressed.
Slow	The percussion's attenuation time is lengthened. This softens the sense of attack.
Fast	The percussive sound will decay more quickly. This gives more of a sense of attack for a sharp sound.

NOTE

When percussion is on, the 1′ pitch will not be produced.

Even if you've edited the tone wheel settings, they will return to their previous state if you select ONE TOUCH PIANO, ONE TOUCH E. PIANO, or a Live Set. If you want to keep the changes you made, save the Live Set (p. 45).

Changing the Undulation of the Organ Tone (Rotary Effect)

While the Tone Wheel screen is displayed, you can change the undulation rate of the Rotary effect with the Pitch Bend lever.

The Rotary effect is an effect that recreates the sound of the rotating speakers used to augment the sound of an organ.

Moving the pitch bend lever to left or right will toggle the Rotary effect between fast and slow regardless of the direction in which you move the lever.

MEMO

This Pitch Bend Lever setting is effective only in the Tone Wheel screen.

Changing the Layer LEVEL Slider Feet Assignments

You can change the Feet assigned to each of the Layer LEVEL sliders used in Tone Wheel mode.

1. Press the [MENU] button, getting the indicator to light.

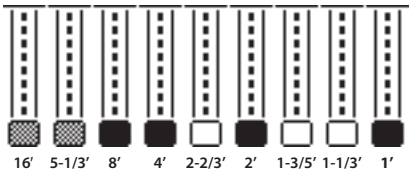
The Edit Menu screen appears.

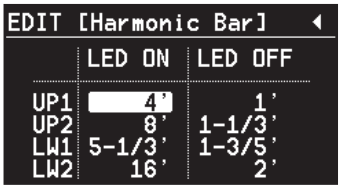
2. Press the Cursor [▼] [▲] buttons to select "2.Control."

3. Press the [ENTER] button to display the Edit screen.

4. Press the Cursor [◀] [▶] buttons to select "Harmonic Bar."

Footage assignments in the Tone Wheel screen (from the left of the screen)





5. Press the Cursor [▼] [▲] buttons to move the cursor to the parameter for changing the Feet.

"LED ON" and "LED OFF" in the screen indicate whether Layer switch is switched on or off.

Parameter	Value
UP 1 (UPPER 1)	16', 5-1/3', 8', 4', 2-2/3', 2', 1-3/5', 1-1/3', 1'
UP 2 (UPPER 2)	
LW 1 (LOWER 1)	
LW 2 (LOWER 2)	

6. Use the [DEC] [INC] buttons or the VALUE dial to select the Feet.

7. When you have finished making the settings, press the [MENU] button, extinguishing its indicator.

You are returned to the Live Set screen.

Selecting Stored Settings (Live Set)

The RD-700NX's Layer (p. 56) and EXTERNAL Layer (p. 59) tone settings, effect settings, and other such settings are collectively referred to as a "Live Set."

Once you've stored your preferred settings, and settings for the songs to be performed as a Live Set, you can then switch whole groups of settings during a performance just by switching Live Sets.

You can store up to 100 Live Sets. The Preset bank contains recommended Live Sets.

Now try actually calling up a Live Set.

NOTE

The current settings are erased when a Live Set is called up.
When you've created settings that you like, you should store them in the User bank. For details on how to store your settings in the User bank, refer to "Storing Settings to Live Sets" (p. 45).

1. Press the LIVE SET button, getting the indicator to light.

The Live Set screen will appear.

2. Use the [DEC] [INC] buttons, VALUE dial, or LIVE SET buttons to select the Live Set to be called up.

Registering the Live Sets You Like

You can also register the Live Sets you like and use frequently to the LIVE SET buttons.

These Live Sets are called "Favorite Live Sets."

This function allows you to select Live Sets more quickly.

You can register a total of 40 Live Sets, ten Live Sets in each of the four banks, to the Favorite Live Sets.

1. In the Live Set screen, recall the Live Set that you want to register.

2. Hold down the BANK [PRESET] button and press the BANK [USER] button.

The Favorite Live Set screen will appear.

3. Use the [TONE EDIT] (BANK CHANGE) button to select the bank in which you want to register the Live Set.

4. Hold down the [Layer EDIT] (ASSIGN) button and press the LIVE SET button at which you want to register the Live Set.

The Live Set will be registered to the button you pressed.

5. To return to the Live Set screen, press the [EXIT/SHIFT] button.

MEMO

Settings registered in the RD-700NX are not deleted even when the power is turned off.

Selecting a Live Set You've Registered

1. Hold down the BANK [PRESET] button and press the BANK [USER] button.

The Favorite Live Set screen will appear.

2. Press the [TONE EDIT] (BANK CHANGE) button to select the desired bank.

When you press the [Layer EDIT] (ASSIGN) button, the screen will show a list of the Live Sets registered to the buttons of the selected bank.

MEMO

There are four banks (A–D). Repeatedly pressing the [TONE EDIT] (BANK CHANGE) button cycles you through the banks in this order: A→ B→ C→ D → A→...

You can switch screens by holding down the [Layer EDIT] (ASSIGN) button and using the cursor [▼] [▲] buttons.

3. Press one of the LIVE SET buttons to select the desired Live Set.

4. Play the keyboard.

The settings of the Live Set you recalled will be placed in effect.

5. To return to the Live Set screen, press the [EXIT/SHIFT] button.

Storing Settings to Live Sets

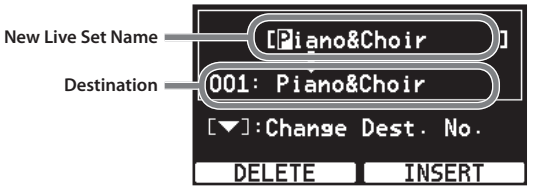
If you want to use the changed content as a new Live Set, use the following procedure to save the settings to user bank.

You can store 100 Live Sets on the RD-700NX.

You can also change the name of a Live Set.

1. Press the [WRITE] button, getting the indicator to light.

As shown on the right screen appears.



2. Press the Cursor [◀] [▶] buttons to move the cursor to the positions where the characters are to be input.

3. Use the [DEC] [INC] buttons or the VALUE dial to enter the characters.

The following characters are available.

space, ! " # $ % & ' ( ) * + , - . / 0–9 : ; < = > ? @ A–Z [\ ] ^ _ ` a–z { | } ~

When the [TONE EDIT] (INSERT) button is pressed, a single-character blank space is inserted; pressing the [Layer EDIT] (DELETE) button deletes one character.

MEMO

You can use the LIVE SET buttons to directly specify and enter characters.

4. Repeat steps 2–3 to input the name.

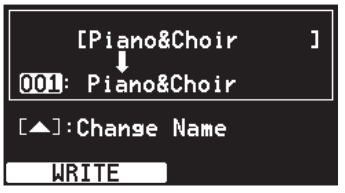
5. Press the Cursor [▼] button to move the cursor to the destination Live Set number.

MEMO

Pressing the Cursor [▼] button, even while inputting the name, moves the cursor to the save-destination Live Set number.

6. Select the save-destination Live Set number, either by using the [DEC] [INC] buttons or the VALUE dial.

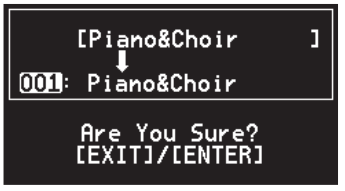
When using the LIVE SET buttons to input Live Set numbers, press the [ENTER] button afterwards to set the number.



7. When you have finished determining the save destination and the name for the new Live Set, press the [ENTER] button or the [Layer EDIT] (WRITE) button.

The [ENTER] button's indicator is flashing, and the confirmation message appears.

If you do not want to save the Live Set, press the [EXIT/SHIFT] button or [WRITE] button.



8. When the [ENTER] button is pressed, saving of the Live Set begins.

When you have finished saving the Live Set, the [WRITE] button's indicator goes out and you are returned to the Live Set screen.

NOTE

Never switch off the power while "Executing..." appears in the display.

Settings Not Saved in a Live Set

The following settings cannot be saved to a Live Set.

- System Settings (p. 66)
- Compressor Settings (p. 76)
- V-LINK Settings (p. 83)
- Settings for Play Mode, Transpose, Center Cancel, and Part Switch under Song Function. (p. 84)
- Rec Setting (p. 86)

Pressing the [Layer EDIT] (WRITE) button in the Edit screen saves the System, and V-LINK settings.

Making Detailed Settings for the Piano Tones

You can make detailed settings to adjust the piano sound that's used when you press the ONE TOUCH PIANO button (p. 26).

These detailed settings can be saved for each variation.

NOTE

When you press one of the ONE TOUCH PIANO buttons, all settings other than the tone settings will be set to their power-up default values.

Store any arrangements of settings that you want to keep in Live Set (p. 45).

1. **In the ONE TOUCH PIANO screen, use [DEC] [INC] or the VALUE dial to select the variation that you want to edit.**
2. **Press the [TONE EDIT] button.**

   The tone edit screen will appear.
3. **Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to the parameter to be set.**

   Move the cursor to one of the following menus and press the [ENTER] button, then select the parameter you want to set in the screen that follows.

   1. Key Touch Edit
   2. Micro Tune Edit
   3. Sym. Resonance
   4. Equalizer
   5. Initialize
4. **Use the [DEC] [INC] buttons or the VALUE dial to edit the value.**

   For details on the parameters, refer to the Piano Parameters table.
5. **If you want to save the setting, press the [LAYER EDIT] (WRITE) button.**

   The confirmation message appears.

   Press the [ENTER] button to save the settings. If you want to cancel, press the [EXIT/SHIFT] button, you are returned to the MENU screen.
6. **When you finish making settings, press the [EXIT/SHIFT] button.**

   You are returned to the ONE TOUCH PIANO screen.

NOTE

Depending on the piano tone selected, this setting may not be available.

Piano Parameters

Parameter	Value	Description
(Tone Name)	–	Selects the tone.
Stereo Width	CENTER, L01-01R–L63-63R	The higher the value set, the wider the sound is spread out.
Nuance	TYPE1, 2, 3	This changes the Tone's subtle nuances by altering the phase of the left and right sounds. *** This effect is difficult to hear when headphones are used.**
Lid	1–7	Reproduces the way the brightness of a grand piano's sound is affected by how much the piano's lid is opened. The lid is opened more as the value is increased, creating a brighter sound.
Damper Noise	0–127	This adjusts the damper noise (the sound that occurs when the strings of an acoustic piano are released by pressing the damper pedal). Increasing this value will increase the sound that is heard when the strings are released.
Duplex Scale	0–127	This adjusts the sound of the sympathetically vibrating aliquot strings on an acoustic piano. Higher values will increase the volume of the sympathetic vibration. **What are Duplex Scale?** "Duplex Scale" refers to a system that causes sympathetic vibrations in the sections of the string toward the front and toward the back. It can produce sound that is richer and brighter by adding the string's higher harmonics. Because no damper (sound-stopping mechanism) is applied to the front or back sections of the string, the resonating sounds linger even after the sound of the string stops when you release the played key.
String Resonance	OFF, 1–127	When the keys are pressed on an acoustic piano, the strings for keys that are already pressed also vibrate sympathetically. The function used to reproduce is called "String Resonance." Increasing the value will increase the amount of effect.
Key Off Resonance	OFF, 1–127	This adjusts resonances such as the key-off sound of an acoustic piano (subtle sounds that are heard when you release a key). Higher values will increase the volume of the resonances.
Hammer Noise	-2–0–+2	This adjusts the sound of the hammer striking the string of an acoustic piano. Higher values will increase the sound of the hammer striking the string.
Tone Character	-5–0–+5	Higher values produce a harder sound; lower values produce a more mellow sound.
Sound Lift	0–127	This lets you change the way that the sound will respond when you play the keyboard softly. For example, this can be adjusted suitably for solo performance, or to prevent your sound from being buried in the rest of the band. Increasing this value will allow fairly loud sounds to be produced even when you play with a light touch, so that your performance will not be obscured by the playing of your band. *** The tonal change will still be great even if you change this value.**

Changing the Key Touch

You can make advanced settings for the touch used for the keys.

Changing this setting also changes the Key Touch setting in Edit Mode (p. 71).

Parameter	Value	Description
Key Touch	SPR LIGHT	An even lighter setting than LIGHT.
	LIGHT	This sets the keyboard to a light touch. You can achieve fortissimo (ff) play with a less forceful touch than usual, so the keyboard feels lighter. This setting makes it easy to play, even for children.
	MEDIUM	This sets the keyboard to the standard touch. You can play with the most natural touch. This is the closest to the touch of an acoustic piano.
	HEAVY	This sets the keyboard to a heavy touch. You have to finger the keyboard more forcefully than usual in order to play fortissimo (ff), so the keyboard touch feels heavier. Dynamic fingering adds even more feeling to what you play.
	SPR HEAVY	An even heavier setting than HEAVY.
Key Touch Offset	-10–+9	This setting provides even more precise adjustment of the key touch than available with the Key Touch setting alone. This allows you to achieve a more precise setting for the Key Touch by specifying an intermediate value between Key Touch settings. The touch sensitivity becomes heavier as the value increases. When this parameter is set to a value that exceeds the upper or lower limit, the setting for Key Touch (one of five possible values) is automatically changed to accommodate the value you've specified.

Parameter	Value	Description
Velocity	REAL	Volume levels and the way sounds are played change in response to the velocity.
	1–127	The fixed velocity value you specify here will determine the volume and the way the sound is produced, regardless of your keyboard playing strength.
Velo Delay Sens (Velocity Delay Sensitivity)	-63–+63	This sets the interval from the time the key is played to when the sound is produced. As the value is decreased, the timing of the sound is delayed more when more force is used to play the keys. As the value is increased, the timing of the sound is delayed more when less force is used to play the keys.
Velo Keyflw Sens (Velocity Keyfollow Sensitivity)	-63–+63	This setting changes the touch sensitivity according to the key range being used. As the value is increased, the touch becomes heavier in the upper registers, and lighter in the lower keys.
Key Off Position	STANDARD	Note-off will occur at the depth of a conventional piano.
	DEEP	Note-off will occur at a deeper position. This is suitable for electric piano sounds.

Finely Adjusting the Tuning

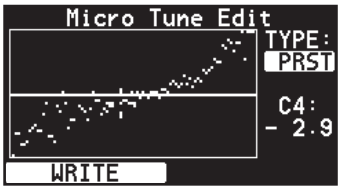
This procedure allows micro-tuning of each individual key.

You can adjust this in a range of -50.0 to +50.0 cents in 0.1 cent steps. (One semitone is 100 cents.)

Parameter	Value
Type	OFF, PRST (PRESET), USER

1. In step 3 of "Making Detailed Settings for the Piano Tones" (p. 46), choose "2. Micro Tune Edit" and press the [ENTER] button.

The Micro Tune Edit screen appears.



Pressing the [EXIT/SHIFT] button returns you to the previous screen.

2. Press the Cursor [▲] button to move the cursor to the value for "TYPE."

3. Use the [DEC] [INC] buttons or the VALUE dial to select the type.

4. Press the Cursor [▼] button to move the cursor to the numerical value.

5. Press the key to specify it as the one you want to tune.

6. Use the [DEC] [INC] buttons or the VALUE dial to adjust the value.

7. If you want to save the setting, press the [LAYER EDIT] (WRITE) button.

The setting is saved to "USER."

Adjusting Resonance when the Damper Pedal is Depressed

You can adjust this resonance when the damper pedal is depressed (Sympathetic Resonance).

On an acoustic piano, holding down the damper pedal will allow the remaining strings to resonate in sympathy with the sounds that you played from the keyboard, adding a rich resonance. This feature reproduces that resonance sound.

Parameter	Value	Description
Sw	OFF, ON	When set to ON, the effect is applied.
Depth	0–127	Depth of the effect
Damper	0–127	Depth to which the damper pedal is pressed (controls the resonant sound)
Pre LPF	16–15000 Hz, BYPASS	Frequency of the filter that cuts the high-frequency content of the input sound (BYPASS: no cut)
Pre HPF	BYPASS, 16–15000 Hz	Frequency of the filter that cuts the low-frequency content of the input sound (BYPASS: no cut)
Peaking Freq	200–8000 Hz	Frequency of the filter that boosts/cuts a specific frequency region of the input sound

Parameter	Value	Description
Peaking Gain	-15–+15 dB	Amount of boost/cut produced by the filter at the specified frequency region of the input sound
Peaking Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of the frequency region boosted/cut by the Peaking Gain parameter (larger values make the region narrower)
HF Damp	16–15000 Hz, BYPASS	Frequency at which the high-frequency content of the resonant sound will be cut (BYPASS: no cut)
LF Damp Freq	BYPASS, 16–15000 Hz	Frequency at which the low-frequency content of the resonant sound will be cut (BYPASS: no cut)
Lid	1–7	Adjusts the extent to which the lid of the grand piano is open.
Level	0–127	Output Level
P-Sft Amount	0–127	Amount of fluctuations.
P-Sft Level	0–127	Volume of fluctuations.
P-Sft LPF	16–15000 Hz, BYPASS	Center frequency of filter used to cut the high-frequency portions of the fluctuations. (BYPASS: no cut)
P-Sft HPF	BYPASS, 16–15000 Hz	Center frequency of filter used to cut the low-frequency portions of the fluctuations. (BYPASS: no cut)
P-Sft to Rev	0–127	Amount by which the fluctuations are made to resonate further.
Damper offset	0–64	Volume of additional slight resonance when the damper pedal is not pressed

Making the Equalizer Settings

This sets the equalization.

Parameter	Value	Description
Sw	OFF, ON	When set to ON, the effect is applied.
C2	Low Gain, High Gain, Level	Selects the parameter to be controlled with MFX 2 CTRL.
Low Freq	200, 400 Hz	Frequency of the low range
Low Gain	-15–+15 dB	Gain of the low range
Mid1 Freq	200–8000 Hz	Frequency of the middle range 1
Mid1 Gain	-15–+15 dB	Gain of the middle range 1
Mid1 Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of the middle range 1 Set a higher value for Q to narrow the range to be affected.
Mid2 Freq	200–8000 Hz	Frequency of the middle range 2
Mid2 Gain	-15–+15 dB	Gain of the middle range 2
Mid2 Q	0.5, 1.0, 2.0, 4.0, 8.0	Width of the middle range 2 Set a higher value for Q to narrow the range to be affected.
High Freq	2000, 4000, 8000 Hz	Frequency of the high range
High Gain	-15–+15 dB	Gain of the high range
Level	0–127	Output Level

Restore the Settings to Initial Conditions

This restores the One Touch Piano settings to their initial conditions.

1. In step 3 of "Making Detailed Settings for the Piano Tones" (p. 46), choose "5. Initialize" and press the [ENTER] button.

The Initialize Screen appears.

To cancel the Initialize, press the [EXIT/SHIFT] button.

2. Press the [ENTER] button.

The confirmation message appears.

To cancel the procedure, press the [EXIT/SHIFT] button.

3. Press the [ENTER] button once again.

The ONE TOUCH PIANO button's tones are initialized.

Making Detailed Settings for the E. Piano Tones

The RD-700NX contains a SuperNATURAL E. Piano sound generator.

The SuperNATURAL E. Piano sound generator is Roland's completely new sound generator, which faithfully models the varieties and characteristics of the vintage electric pianos of the '60s through the '80s. It is not limited to typical E. piano modeling, but also provides completely new types of E. piano sound.

Unlike the parameters of a conventional synthesizer, this allows you to create a variety of sounds in the way that a specialized engineer or tuner could do. For example, you can easily change the position of the pickups, or exchange components of the sound-generating system.

NOTE

When you press one of the ONE TOUCH E. PIANO buttons, all settings other than tone settings will be set to their power-up default values.

Store any arrangements of settings that you want to keep in Live Set (p. 45).

1. **In the ONE TOUCH E. PIANO screen, use the [DEC] [INC] buttons or the VALUE dial to select the variation that you want to edit.**
2. **Press the [TONE EDIT] button.**

   The tone edit screen will appear.
3. **Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to the parameter to be set.**

   Move the cursor to one of the following menus and press the [ENTER] button, then select the parameter you want to set in the screen that follows.

   1. Key Touch Edit

   2. Initialize
4. **Use the [DEC] [INC] buttons or the VALUE dial to set the value.**

   For details on the parameters, refer to the E. Piano Parameters table.
5. **If you want to save the setting, press the [LAYER EDIT] (WRITE) button.**

   The confirmation message appears.

   Press the [ENTER] button to save the settings. If you want to cancel, press the [EXIT/SHIFT] button.
6. **When you finish making settings, press the [EXIT/SHIFT] button.**

   You are returned to the ONE TOUCH E. PIANO screen.

E. Piano Parameters

Parameter	Value	Description
Tone	TINE EP	This is an E. Piano that widely used in the '70s. It is a standard sound that was loved by jazz and fusion players, and continues to have numerous fans to this day. This sound is characterized by a bell-like attack and a mild tone, and is indispensable in today's styles, such as smooth jazz and acid jazz.
	TINE EP2	This is a new type of E. Piano. It is a variation of the Tine EP.
	FM TINE	
	TINE EP3	
	TINE EP4	
	REED EP	This is an E. Piano that made its appearance in the '60s and was widely used in rock and R&B. It has a distinctive dynamism, with gentle pianissimo sounds and strongly played notes that are reminiscent of resonance sounds on a synthesizer. This E. Piano continues to be used by numerous musicians today.
	REED BELL	This is a new type of E. Piano, combining the characteristics of a Tine EP and a Reed EP.
	REED EP2	This is a new type of E. Piano. It is a variation of the Reed EP.
	REED EP3	
	REED EP4	
	SA EP1	This is the E. Piano 1 sound of the Roland RD-1000, which was released in 1986.
	SA EP2	This is the E. Piano 2 sound of the RD-1000.
	*** Depending on the tone you select, some of the parameters described below may not produce any change in the sound when you edit them.**	
Bar Angle	-10–0–+10	The typical E. Piano produces sound when a hammer strikes a metal rod called the tine with tone bar, whose vibrations are detected by a pickup. On this type of piano, the tonal character can be adjusted by changing the angle of the tone bars and pickups. Higher settings will emphasize the fundamental, producing a thicker sound.
Pickup Distance	-2–0–+2	The typical E. Piano uses pickups to convert the vibrations of the tone bars into sound. By adjusting this parameter, you can obtain the effect of changing the distance between the tone bars and the pickups. Lowering this value will move the tone bars and pickups farther apart. This makes it easier for you to produce varied dynamics. Increasing this value will produce a more powerful sound.
Bell/Thump	-10–0–+10	This adjusts the balance between two components of the attack; the Bell component and the Thump produced by the hammer. Adjusting this value from 0 toward the negative side will emphasize the bell sound, while adjusting it toward the positive side will emphasize the hammer sound.
Bell Character	-10–0–+10	This adjusts the tonal character of the bell sound included in the attack. Adjusting this value from 0 toward the negative side will produce a heavier character, while adjusting it toward the positive side will produce a lighter character.
Damper Noise	-10–0–+10	This adjusts the damper noise (the noise heard when you press the damper pedal to release the tone bars). Increasing this value will make the damper noise louder. *** Depending on the selected Tone, this may have no effect.**
Key Off Reso (Key Off Resonance)	-10–0–+10	This adjusts resonances such as the key-off sound (the faint sound heard when you release a key). Higher values will produce a louder key-off sound. At a setting of -10 there will be no key-off sound at all. *** Depending on the selected Tone, this may have no effect.**
HUM Noise	-10–0–+10	This adjusts the amount of hum and other noise that leaks into the pickups. Electric pianos were susceptible to various types of noise, and this noise would sometimes be output along with the sounds of the performance. Depending on the effect settings, such noises can produce an authentic, lively atmosphere. Adjusting this value from 0 toward the negative side will produce a clearer sound, while adjusting it toward the positive side will produce a dirty sound. At a setting of -10 there will be no hum at all. *** Depending on the selected Tone, this may have no effect.**
Tuning Type	TYPE 1, TYPE 2	By changing the tuning type you can change the way in which chords will resonate. *** Depending on the selected Tone, this may have no effect.**
Level	0–127	This adjusts the volume of the E. Piano tone.

Selecting an Effect

You can apply a multi-effect you've selected from 84 different effect types. For details on the available effect types, refer to the Effect List (p. 96).

Selecting the Type of Amp

This switches the amp of the E. Piano. By changing the combination of E. piano type and amp type, you can create a variety of sounds ranging from standard E. piano sounds to new sounds that have not been heard before.

THRU

No amp will be used.

OLD CASE

This combines TINE EP with a variation of it, reproducing a typical E. piano sound of the early '70s.

Parameter	Value	Description
Treble	-50–+50	Amount of boost/cut for the high-frequency range
Bass	-50–+50	Amount of boost/cut for the low-frequency range
Tremolo Sw	OFF, ON	Turns tremolo on/off.
Tremolo Rate Mode	Hz, Note (*1)	When this is set to "note," the effect is synchronized with the tempo.
Tremolo Rate (Hz)	0.05–10.00 Hz	Frequency of the tremolo (Hz)
Tremolo Rate (♪)	Note (*1)	Frequency of the tremolo (♪)
Tremolo Depth	0–127	Depth of the tremolo
Tremolo Duty	-10–+10	Specifies the duty cycle of the LFO waveform used to apply tremolo. Increasing this value will increase the duty cycle of the LFO waveform for the L-channel; the duty cycle for the R-channel will decrease.
Speaker Sim	LINE, OLD, NEW, WURLY, TWIN	Type of the speaker *** When "LINE" is selected, no speaker used.**
Drive	0–48	Amount of distortion.
Level	0–127	Adjust the output level.

NEW CASE

This combines TINE EP with a variation of it, reproducing a typical E. piano sound of the late '70s through '80s.

Parameter	Value	Description
Treble	-50–+50	Amount of boost/cut for the high-frequency range
Bass	-50–+50	Amount of boost/cut for the low-frequency range
Tremolo Sw	OFF, ON	Turns tremolo on/off.
Tremolo Rate Mode	Hz, Note (*1)	When this is set to "note," the effect is synchronized with the tempo.
Tremolo Rate (Hz)	0.05–10.00 Hz	Frequency of the tremolo (Hz)
Tremolo Rate (♪)	Note (*1)	Frequency of the tremolo (♪)
Tremolo Depth	0–127	Depth of the tremolo
Tremolo Duty	-10–+10	Specifies the duty cycle of the LFO waveform used to apply tremolo. Increasing this value will increase the duty cycle of the LFO waveform for the L-channel; the duty cycle for the R-channel will decrease.
Speaker Sim	LINE, OLD, NEW, WURLY, TWIN	Type of the speaker *** When "LINE" is selected, no speaker used.**
Drive	0–48	Amount of distortion.
Level	0–127	Adjust the output level.

DYNO

This amp type is a modification of OLD CASE or NEW CASE, and is marked by a bright sound and distinctive distortion that occurs when you play strongly. When used in conjunction with TINE EP or a variation of it, this will reproduce the E. piano sounds used in numerous recordings of the early '80s.

Parameter	Value	Description
Filter Curve	0–127	Amount of boost/cut for the middle-frequency range
Bass Boost	0–127	Amount of boost/cut for the low-frequency range
Overtone	0–127	Amount of boost/cut for the high-frequency range
Tremolo Sw	OFF, ON	Turns tremolo on/off.
Tremolo Rate Mode	Hz, Note (*1)	When this is set to "note," the effect is synchronized with the tempo.
Tremolo Rate (Hz)	0.05–10.00 Hz	Frequency of the tremolo (Hz)
Tremolo Rate (♪)	Note (*1)	Frequency of the tremolo (♪)
Tremolo Depth	0–127	Depth of the tremolo
Tremolo Shape	0–127	Adjusts the tremolo waveform. Values near 0 will approach a triangle wave, and values near 127 will approach a pulse wave. The effect will also change depending on the Tremolo Depth setting.
Limiter	OFF, ON	Selects whether the limiter will be applied (on) or not (off).
Speaker Sim	LINE, OLD, NEW, WURLY, TWIN	Type of the speaker *** When "LINE" is selected, no speaker used.**
Drive	0–48	Amount of distortion.
Level	0–127	Adjust the output level.

WURLY

This combines REED EP with a variation of it, reproducing a typical E. piano sound of the '60s.

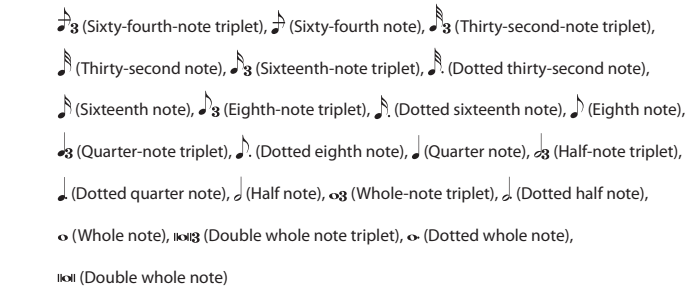
Parameter	Value	Description
Treble	-50–+50	Amount of boost/cut for the high-frequency range
Bass	-50–+50	Amount of boost/cut for the low-frequency range
Vibrato Sw	OFF, ON	Turns tremolo on/off.
Vibrato Rate Mode	Hz, Note (*1)	When this is set to "note," the effect is synchronized with the tempo.
Vibrato Rate (Hz)	0.05–10.00 Hz	Frequency of the tremolo (Hz)
Vibrato Rate (♪)	Note (*1)	Frequency of the tremolo (♪)
Vibrato Depth	0–127	Depth of the effect
Speaker Sim	LINE, OLD, NEW, WURLY, TWIN	Type of the speaker *** When "LINE" is selected, no speaker used.**
Drive	0–48	Amount of distortion.
Level	0–127	Adjust the output level.

STAGE TWIN

This simulates playing through a guitar amp.

Parameter	Value	Description
Treble	-50–+50	Amount of boost/cut for the high-frequency range
Bass	-50–+50	Amount of boost/cut for the low-frequency range
Tremolo Sw	OFF, ON	Turns tremolo on/off.
Tremolo Rate Mode	Hz, Note (*1)	When this is set to "note," the effect is synchronized with the tempo.
Tremolo Rate (Hz)	0.05–10.00 Hz	Frequency of the tremolo (Hz)
Tremolo Rate (♪)	Note (*1)	Frequency of the tremolo (♪)
Tremolo Depth	0–127	Depth of the tremolo
Tremolo Duty	-10–+10	Specifies the duty cycle of the LFO waveform used to apply tremolo. Increasing this value will increase the duty cycle of the LFO waveform for the L-channel; the duty cycle for the R-channel will decrease.
Speaker Sim	LINE, OLD, NEW, WURLY, TWIN	Type of the speaker *** When "LINE" is selected, no speaker used.**
Drive	0–48	Amount of distortion.
Level	0–127	Adjust the output level.

Note (*1):



Adjusting the Keyboard Touch Response

You can adjust the way in which the keyboard responds to your playing touch.

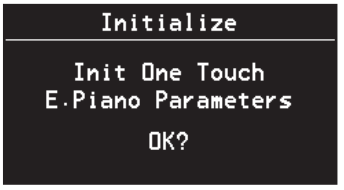
→ "Changing the Key Touch" (p. 48)

Restore the settings to initial conditions

This restores the One Touch E. Piano settings to their initial conditions.

1. In Step 3 of the E. Piano settings instructions (p. 50), select "2. Initialize" and press the [ENTER] button.

The Initialize Screen appears.



2. Press the [ENTER] button.

The confirmation message appears.

To cancel the procedure, press the [EXIT/SHIFT] button.

3. Press the [ENTER] button once again.

The ONE TOUCH E. PIANO button's tones are initialized.

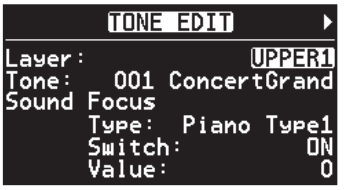
Making Tone Settings

You can make more detailed settings to the tones assigned to each of the layer.

In certain selected Tones, there may be parameters that cannot be changed.

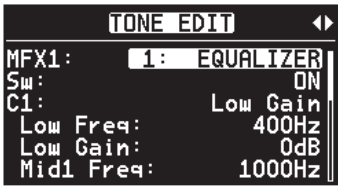
1. In the Live Set screen, press the [TONE EDIT] button.

The [TONE EDIT] button lit, and the TONE EDIT screen appears.



2. Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to the parameter to be set.

Move the cursor to one of the following menus and press the [ENTER] button, then select the parameter you want to set in the screen that follows.



- Micro Tune Edit → "Finely Adjusting the Tuning" (p. 48)
- Sym.Resonance → "Adjusting Resonance when the Damper Pedal is Depressed" (p. 48)

3. Use the [DEC] [INC] buttons or the VALUE dial to edit the value.

4. When you finish making settings, press the [TONE EDIT] button, extinguishing its indicator.

You are returned to the Live Set screen.

NOTE

If you've selected a Piano tone, a tone wheel organ tone or a SuperNatural E. Piano tone, some items will not be available for editing. The value is shown as "- - -" for such items.

Tone parameter list

Parameter	Value	Description
Layer	UPPER1, UPPER2, LOWER1, LOWER2	Choose the Layer for which you want to make settings.
Tone	When the layer to be set is selected, the name of the assigned tone appears. You can select tone using the LIVE SET buttons.	
Sound Focus Type	Piano Type1	Limits the volume change produced by variations in your playing touch, and also reduces the sense of stereo, allowing your sound to be more prominent in the band's overall mix. This parameter is effective only with respect to SuperNATURAL Piano.
	Piano Type2	Reduces the sense of stereo. This parameter is effective only with respect to SuperNATURAL Piano.
	E. Piano Type	Changes the sound from soft to strikingly unique. This parameter is effective only with respect to certain SuperNATURAL E. Piano tones.
	Sound Lift	Limits the volume change produced by variations in your playing touch.
	Enhancer	Controls the harmonic content of the upper range, making your sound more prominent. *** This setting has no effect with respect to SuperNATURAL Piano tones.**
	Mid Boost	Boosts the mid-range frequencies. *** This setting has no effect with respect to SuperNATURAL Piano tones.**
Sound Focus Sw	OFF, ON	Turns Sound Focus on/off. Press the SOUND FOCUS [ON/OFF] button to change this setting. With some Tones, the effect does not work as intended.
Sound Focus Value	0–127	Adjusts the depth of the effect. Turn the SOUND FOCUS [DEPTH] knob to change this setting. With some Tones, the effect does not work as intended.
MFX 1	–	You can make settings for the multi-effect applied to a tone. The multi-effects are general-purpose effects that modify the sound itself, and are able to completely transform the character of the sound. There are 84 types of effects, and you can choose the type that's suitable for your purposes. Some types consist of a single effect such as distortion or flanger, and other types combine effects in series or in parallel. Reverb and chorus are also provided as multi-effect types, and these are handled independently from the Reverb (p. 74) and Chorus (p. 75) effects described later. The RD-700NX lets you apply two multi-effects to the tones. The two multi-effects are connected in series.
MFX 2	–	
Coarse Tune	-48–+48 (+/- 4 octaves)	This sets the pitch of the tone. Sets the sound's pitch in semitone units.
Fine Tune	-50–+50 (+/- 50 cents)	This sets the pitch of the tone. Sets the sound's pitch in units of one cent.

Parameter	Value	Description
Mono/Poly	Specifies whether the tone will play polyphonically (POLY) or monophonically (MONO). The MONO setting is effective when playing a solo instrument tone such as sax or flute. Additionally, when this is set to "MONO LEGATO," you can have monophonic performances played legato. Legato is a playing style in which the spaces between notes are smoothed, creating a flowing feel with no borders between the notes. This creates a smooth transition between notes, which is effective when you wish to simulate the hammering-on and pulling-off techniques used by a guitarist.	
	MONO	Only the last-played note will sound.
	POLY	Two or more notes can be played simultaneously.
	MONO LEGATO	Legato is applied to monophonic performances.
Portamento SW	ON, OFF	Portamento is a function that causes the pitch to change smoothly from one note to the next note played. With the Mono/Poly parameter set to MONO, portamento is especially effective when simulating playing techniques such as a violin glissandos.
Portamento Time	0–127	The Portamento Time setting determines the time for the change in pitch when the portamento effect is applied to the sound. Higher settings will cause the pitch change to the next note to take more time.
Bend Range	0–24 (semitone)	This sets the amount of pitch change that will occur when you move the Pitch Bend lever (2 octaves).
Attack Time (Offset)	-64–+63	The time it takes after the key is pressed for a sound to reach full volume. Higher values produce a milder attack; lower values produce a sharper attack. *** With some Tones, the effect does not work as intended.**
Release Time (Offset)		This is the time over which the sound decays to silence after you release the key. Higher values produce longer decay; set lower values for a clear-cut sound. *** With some Tones, the effect does not work as intended.**
Cutoff (Offset)		Adjusts how much the filter is opened. Higher values brighten the sound; lower values make the sound seem darker. *** With some Tones, the effect does not work as intended.**
Resonance (Offset)		Emphasizes the overtones in the region of the cutoff frequency, adding character to the sound. Excessively high settings can produce oscillation, causing the sound to distort. Higher value makes the special quality of the sound stronger; lower value reduce these characteristics. *** With some Tones, the effect does not work as intended.**
Decay Time (Offset)		The time it is to take following the attack for the volume to decrease. The time it takes for the volume to fall increases as the value is raised; lowering the value decreases the decay time. *** With some Tones, the effect does not work as intended.**

If a tone from the piano category is selected, you'll be able to edit the following parameters.

- Stereo Width (p. 47)
- Nuance (p. 47)
- Lid (p. 47)
- Damper Noise (p. 47)
- Duplex Scale (p. 47)
- String Resonance (p. 47)
- Key Off Resonance (p. 47)
- Hammer Noise (p. 47)
- Tone Character (p. 47)
- Sound Lift (p. 47)
- Micro Tune (p. 48)
- Sym.Resonance (p. 48)

NOTE

Sound Focus Type, Sound Focus Sw, Sound Focus Value, Damper Noise, Duplex Scale, and Sym.Resonance are effective only with respect to UPPER1, they will appear only when UPPER1 has been selected for Layer.

Making Layer Settings

The RD-700NX features four Parts (UPPER 1, UPPER 2, LOWER 1, and LOWER 2) that you can use for freely controlling the internal parts with the RD-700NX's buttons and keyboard.

These four parts that are used for controlling the internal parts are collectively known as the "Layer."

You can perform operations like Split with the Layer very simply using the RD-700NX's keyboard (p. 29), and you can make more detailed settings for the Layer as well.

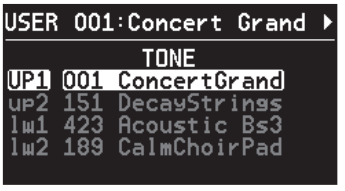
NOTE

Depending on the tone selected, there may be parameters that cannot be altered.

1. Press the [LAYER EDIT] button.

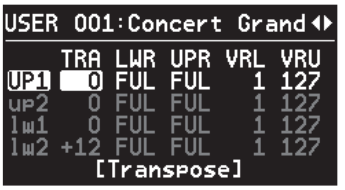
The [LAYER EDIT] button will light, and the LAYER EDIT screen will appear.

Layers that have their LAYER switch turned off are dimmed in the screen.



2. Press the Cursor [◀] [▶] buttons to switch screens.

3. Press the Cursor [▼] [▲] [◀] [▶] buttons to move the Cursor to the parameter to be set.



4. Use the [DEC] [INC] buttons or the VALUE dial to edit the value.

Pressing the [DEC] and [INC] buttons simultaneously sets that parameter to the standard default value.

5. When you finish making settings, press the [TONE EDIT] button, extinguishing its indicator.

You are returned to the Live Set screen.

Layer parameter list

Parameter	Value	Description
TONE	This indicates the tone that is assigned to the layer. You can select tone using the ONE TOUCH buttons and the LIVE SET buttons.	
VOL (Volume)	0–127	Sets the volume for each of the layers. The Volume setting is mainly used when multiple tones are playing to obtain the desired balance in volume between each layer.
PAN	L64–0–R63	The Pan setting localizes the sound image of each layer when the output is in stereo. With an increase in the value for L, more of the sound will be heard as coming from the left side. Similarly, more of the sound will originate at the right if the value of R is increased. When set to 0, the sound is heard as coming from the center.
REV (Reverb Amount) **CHO (Chorus Amount)**	0–127	This sets the depth of the reverb and chorus effects. When this value is set to "0," no reverb or chorus effect is applied when the REVERB [DEPTH] knob or the CHORUS [DEPTH] knob is turned.
TRA (Transpose)	-48–0–+48	You can perform with each Layer transposed to a different pitch. When multiple tones are playing, you can create a richer sound by setting the two Tones to different octaves. Also, if the Keyboard Mode is set to Split (p. 29) and you are playing a bass Tone in the lower Layer, you can use the Transpose function to play the bass at a lower pitch. You can also set the same degree of transposition for all layers with the [TRANSPOSE] button. For details, refer to "Transposing the Key of the Keyboard (TRANSPOSE)" (p. 32).
LWR (Key Range Lower) **UPR (Key Range Upper)**	A0–C8	When the [SPLIT] button is pressed in normal performance conditions, the key range is divided at the Split Point, and you can play with two different tones on one keyboard. Using Key Range allows you to make even more detailed key range settings. This sets the lower and upper limit of the key range in each layer. You cannot set the key range's lower limit higher than the upper limit, nor can you set the upper limit below the lower limit. After moving the cursor to the parameter to be set, you can make the setting by pressing the designated key and the [ENTER] button. This is effective only when the [SPLIT] button is on (p. 29) in the key range settings. "FUL" is displayed when the [SPLIT] button is set to OFF. In this case, the [SPLIT] button is automatically switched on when the value is changed to something other than "FUL" with the [DEC] [INC] button or VALUE dial. When the split point (p. 29) is changed, the Key Range value also changes.

Parameter	Value	Description
VRL (Velocity Range Lower)	1–127	This specifies the lower limit (VRL) and upper limit (VRU) of the range in which the tone is played according to the velocity. Make this setting when you want the tone to change depending on the key velocity. This setting is disregarded with certain tones.
VRU (Velocity Range Upper)	1–127	
Sns (Velocity Sense)	-63–+63	This setting determines how the volume changes in response to the velocity. The volume is increased as the keyboard is played with greater force when a positive value is used; when a negative value is selected, the volume decreases as the keys are played with greater force. This setting is disregarded with certain tones.
Max (Velocity Max)	1–127	Maximum velocity value for the corresponding key. Lowering this value will produce softer notes even if you play the keyboard strongly. This setting is disregarded with certain tones.
V.Reserve (Voice Reserve)	0–64	Specifies the number of voices that will be reserved for each layer if you attempt to play more than 128 voices.
Dp	ON, OFF	Specifies whether the damper pedal will (ON) or will not (OFF) control each layer.
F1		Specifies whether the pedal connected to the FC1 jack will (ON) or will not (OFF) control each layer.
F2		Specifies whether the pedal connected to the FC2 jack will (ON) or will not (OFF) control each layer.
PB		Specifies whether the pitch bend lever will (ON) or will not (OFF) control each layer.
Md		Specifies whether the modulation lever will (ON) or will not (OFF) control each layer.
S1		Specifies whether the [S1] button will (ON) or will not (OFF) control each layer.
S2		Specifies whether the [S2] button will (ON) or will not (OFF) control each layer.
LW2		Specifies whether the control slider (LW2) will (ON) or will not (OFF) control each layer.
LW1		Specifies whether the control slider (LW1) will (ON) or will not (OFF) control each layer.
UP2		Specifies whether the control slider (UP2) will (ON) or will not (OFF) control each layer.
UP1		Specifies whether the control slider (UP1) will (ON) or will not (OFF) control each layer.

Using the RD-700NX As a Master Keyboard

By connecting an external MIDI device to the MIDI OUT connectors on the RD-700NX's rear panel, you can then control the external MIDI device from the RD-700NX.

Normally, the RD-700NX will transmit note messages from the MIDI OUT connector, but if you press the [MIDI] button so the "MIDI" indicator is lit, you'll be able to control various settings on your external MIDI device in addition to transmitting note messages.

You can control internal and external sound generators independently.

If you press the [MIDI] button so the "MIDI" indicator is lit, the RD-700NX will be in a state where it can control an external MIDI sound module (EXTERNAL layer). You push the [MIDI] button to switch between control of the Layer and control of the EXTERNAL layer.

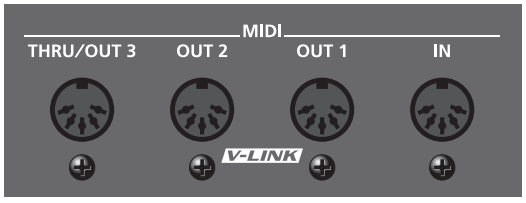
You can also make detailed settings for MIDI messages transmitted to external sound modules.

What's MIDI?

MIDI (Musical Instrument Digital Interface) is a standard specification that allows musical data to be exchanged between electronic musical instruments and computers. By using a MIDI cable to connect devices that have MIDI connectors, you can create an ensemble in which a single MIDI keyboard can play multiple instruments, or change settings automatically as the song progresses.

About MIDI Connectors

The RD-700NX has the following three types of MIDI connector. Their functions differ as described below.



MIDI IN Connector

Performance messages from an external MIDI device are received here. These incoming messages may instruct the RD-700NX to play sounds or switch tones.

MIDI OUT Connector

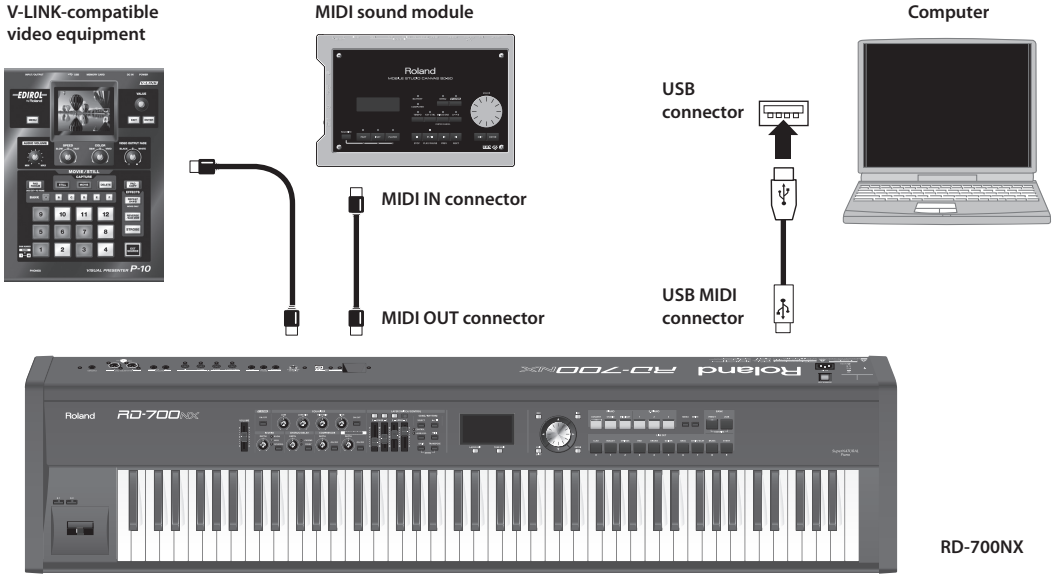
MIDI messages are transmitted from these connectors to external MIDI devices. The RD-700NX's MIDI OUT connectors are used for sending the performance data of the controller section.

MIDI THRU Connector

MIDI messages received at MIDI IN connectors are re-transmitted without change from this connector to an external MIDI device. Use this in situations such as when you use multiple MIDI devices simultaneously.

MEMO

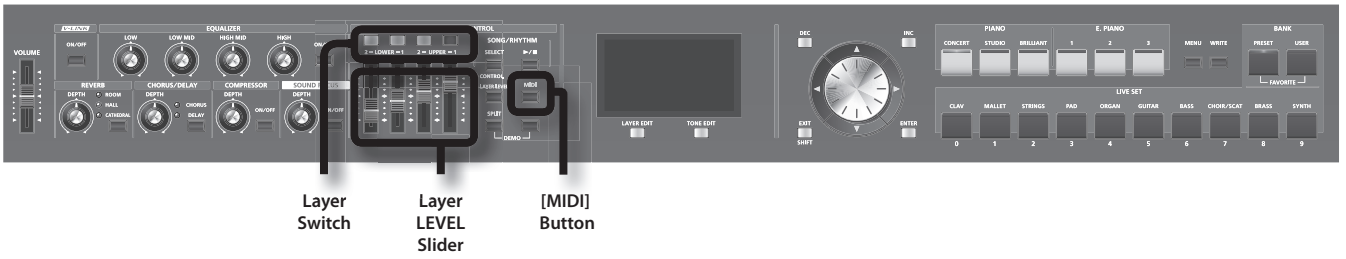
The RD-700NX lets you switch the function of the MIDI THRU/OUT 3 connector (p. 69).



NOTE

Use a USB Cable no longer than five meters.

Adjusting the Volume of Each Layer



When the [MIDI] button is lit, you can use the Layer switch and Layer LEVEL sliders to control the EXTERNAL Layer in the same way as with the Layer (p. 21).

Layer Switch

This specifies whether MIDI data including the notes you play on the keyboard in the EXTERNAL layer will be transmitted from the MIDI OUT connector if the [MIDI] button is lit.

When the Layer switch indicator for a Layer is lit (on), MIDI messages are transmitted from MIDI OUT connector when the keys for that Layer are played.

When the Layer switch indicator for a Layer is not lighted (off), MIDI messages are not transmitted from MIDI OUT connector even when the keys for that part are played.

Layer switch will turn on or off each time you press it.

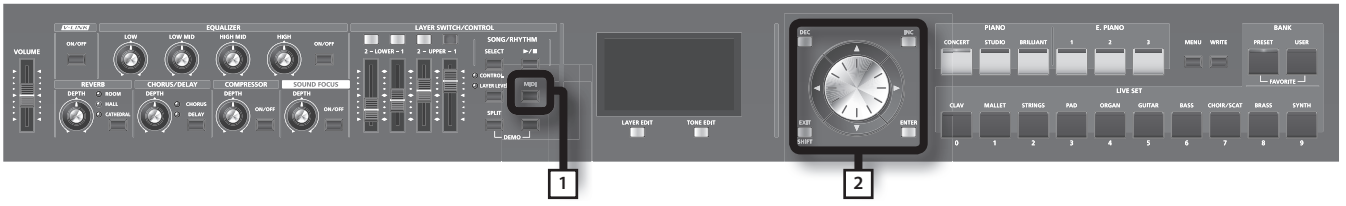
Layer LEVEL Slider

If the [MIDI] button is lit, these sliders adjust the volume of the EXTERNAL layers.

Selecting the MIDI Connector to Use for Output

The RD-700NX provides two MIDI OUT connectors, a MIDI connector whose function can be switched between OUT and THRU, and a USB MIDI connector.

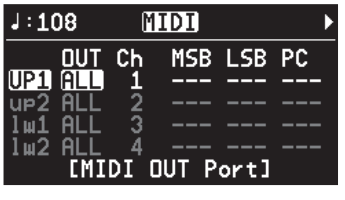
For each layer you can select the MIDI OUT connector or USB MIDI connector from which its data is to be transmitted.



1. Press the [MIDI] button so the "MIDI" indicator is lit.

The MIDI screen appears.

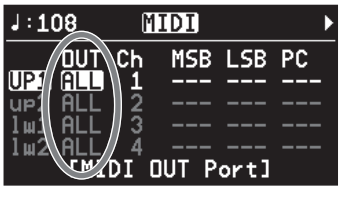
If the following screen doesn't appear, press the Cursor [◀] button several times to display the MIDI screen.



NOTE

When Rec Mode is set to ON in the Utility Rec Setting in Edit mode, the MIDI screen as shown above is not displayed. Set Rec Mode to OFF when setting the MIDI Transmit channel (p. 86).

2. Use the Cursor [◀] [▶] [▼] [▲] buttons to move the cursor, and use the [DEC] [INC] buttons or the VALUE dial to specify the connector from which each layer will transmit its MIDI data.



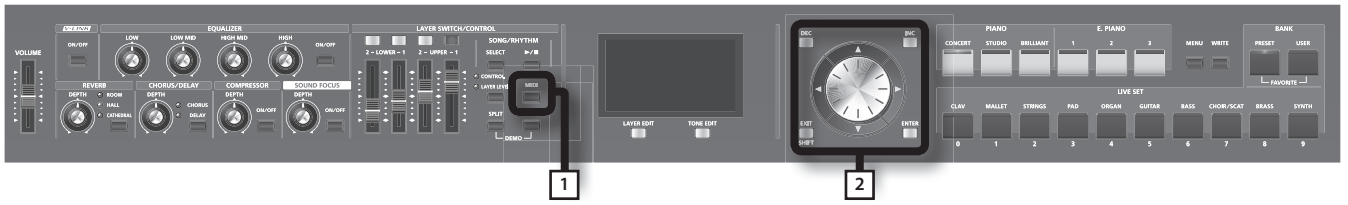
Layer	Parameter	Settings	Description
UP 1 (UPPER 1)	OUT (MIDI OUT Port)	ALL, 1 (MIDI OUT1), 2 (MIDI OUT2), 3 (MIDI OUT3), USB	The RD-700NX's performance data is transmitted from the selected connector.
UP 2 (UPPER 2)			
LW 1 (LOWER 1)			
LW 2 (LOWER 2)			

NOTE

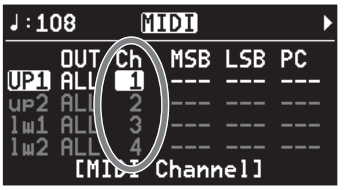
If the System Edit parameter MIDI OUT3 Port Setting (p. 69) is set to "THRU," the performance data from the RD-700NX will not be transmitted from the MIDI OUT 3 connector; instead, the performance data received at the MIDI IN connector will be retransmitted without change (MIDI THRU).

Setting the MIDI Transmit Channel

When you have finished connecting the external MIDI device, match the keyboard's Transmit channel and the Receive channel for each of the external MIDI sound generator's Parts. Sounds is produced when the MIDI channels for the sending device (the RD-700NX) and the receiving device (the external MIDI sound generator) are set to the same MIDI channel.



1. Press the [MIDI] button so the "MIDI" indicator is lit.



The MIDI screen appears.

If "Ch" doesn't appear on screen, press the Cursor [◀] button several times to display the following screen.

NOTE

When Rec Mode is set to ON in the Utility Rec Setting in Edit mode, the MIDI screen as shown above is not displayed. Set Rec Mode to OFF when setting the MIDI Transmit channel (p. 86).

MEMO

For instructions on setting each of the external MIDI sound generator's Part's Receive channel, refer to the owner's manual for each device.

2. Use the Cursor [◀] [▶] [▼] [▲] buttons to move the cursor, and use the [DEC] [INC] buttons or the VALUE dial to set the Transmit channel (Ch) for each layer.

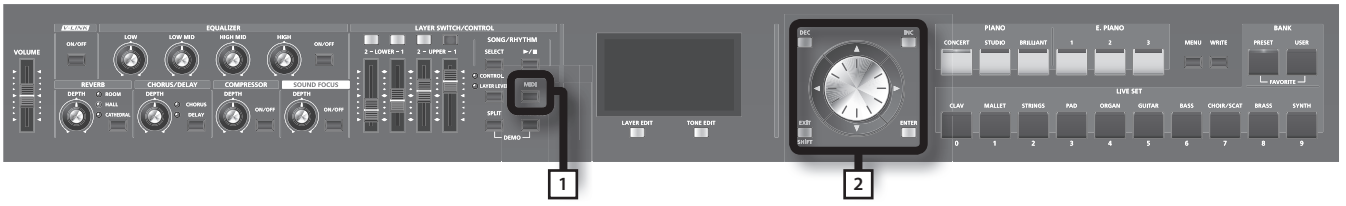
Layer	Parameter	Settings	Description
UP 1 (UPPER 1)	Ch (MIDI OUT Channel)	1–16	RD-700NX performance data is sent over a selected channel.
UP 2 (UPPER 2)			
LW 1 (LOWER 1)			
LW 2 (LOWER 2)			

MEMO

- Layers that have their Layer switch turned off are dimmed in the screen (p. 31). Additionally, the Layer name will be shown in lowercase letters.
- MIDI messages for Layers with the Layer switch set to OFF are not transmitted.

Selecting Sounds on an External MIDI Device

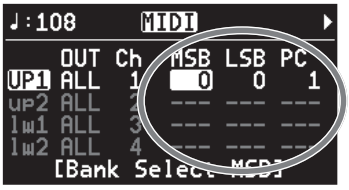
To switch the tones of an external MIDI device, the program number and the MSB/LSB of the Bank Select message are entered as numerical values on the RD-700NX.



1. Press the [MIDI] button so the "MIDI" indicator is lit.

The MIDI screen appears.

If "MSB" doesn't appear on screen, press the Cursor [◀] [▶] buttons several times to display the following screen.



NOTE

When Rec Mode is set to ON in the Utility Rec Setting in Edit mode, the MIDI screen as shown above is not displayed. Set Rec Mode to OFF when setting the MIDI Transmit channel (p. 86).

2. Use the Cursor [◀] [▶] [▼] [▲] buttons to move the cursor, and use the [DEC] [INC] buttons or the VALUE dial to set the MSB, LSB, and PC for each layer.

Pressing the [DEC] [INC] buttons simultaneously switches the settings value to "- - - (OFF)."

When this setting is "- - - (OFF)," bank select and program change messages will not be transmitted.

Parameter	Settings
MSB (Bank Select MSB: CC 00)	0–127, - - - (OFF)
LSB (Bank Select LSB: CC 32)	0–127, - - - (OFF)
PC (Program Change)	1–128, - - - (OFF)

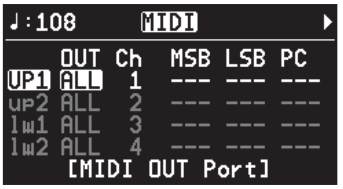
NOTE

- If the external MIDI sound generator transmits a Program number or a Bank number for which no Tone has been assigned, an alternate Tone may be selected, or in some cases, there may be no sound played.
- If you do not want to transmit the Program number or Bank Select, use the procedure described above to set the PC/MSB/LSB to "- - - (OFF)."
- If this is set to "- - -," the sound selection data will not be transmitted when you switch Live Sets.

Detailed Settings for Transmitted Parts

1. Press the [MIDI] button so the "MIDI" indicator is lit.

The RD-700NX is set to control the external MIDI devices.



NOTE

The MIDI screen shown will not appear if Rec Mode is "ON" in the Rec Setting parameter located in Utility edit. Turn the Rec Mode setting "OFF" (p. 86).

2. Press the Cursor [◀] [▶] [▼] [▲] buttons to move the cursor to the parameter to be set.

You can get the cursor to move more rapidly by holding down the Cursor button that points in the direction you want the cursor to move while you also press the Cursor button that points in the opposite direction.

3. Use the [DEC] [INC] buttons or VALUE dial to set the value.

If you press the [DEC] button and [INC] button simultaneously, the value will be reset to "- - - (OFF)" or to the default setting. The value for the setting won't be transmitted when set to "- - - (OFF)."

Adjusting the Volume and Pan (Volume/Pan)

Sets the volume and the panning (localizes sound image) for each of the Tones.

The Volume setting is mainly used when multiple tones are playing to obtain the desired balance in volume between each layer.

The Pan setting positions the sound image of each layer when the output is in stereo. With an increase in the value for L, more of the sound will be heard as coming from the left side.

Similarly, more of the sound will originate at the right if the value of R is increased. When set to 0, the sound is heard as coming from the center.

Parameter	TX CC#	Value
VOL (Volume)	CC07	- - - (OFF), 0–127
PAN (Pan)	CC10	L64–0–63R, - - - (OFF)

Setting the Amount of Reverb and Chorus (Reverb/Chorus)

This sets the depth of the reverb and chorus effects.

Parameter	TX CC#	Value
REV (Reverb)	CC91	- - - (OFF), 0–127
CHO (Chorus)	CC93	

Playing Sound Monophonically (Mono/Poly)

Specifies whether the tone will play polyphonically (Poly) or monophonically (Mono).

The Mono setting is effective when playing a solo instrument tone such as sax or flute.

Parameter	Value
M/P (Mono/Poly)	- - - (OFF), M (Mono, CC126), P (Poly, CC127)

Setting the Transposition for Each Individual Layer (Transpose)

You can perform with each layer transposed to a different pitch.

When multiple layers are set to on, you can create a richer sound by setting the two Tones to different octaves. Also, if the Keyboard Mode is set to Split (p. 29) and you are playing a bass Tone in the lower Part, you can use the Transpose function to play the bass at a lower pitch.

Parameter	Value
TRA (Transpose)	-48 – 0 –+48

Setting the Key Range for Each Layer (Key Range)

Set the keyboard range in which each Layer will sound.

This can be used to make notes in different areas of the keyboard play different Tones.

Specify the lower limit (LWR) and upper limit (UPR) of the key range being set.
You can also set this by pressing a specific key and then pressing the [ENTER] button.

Parameter	Value
LWR (Key Range Lower)	A0–C8
UPR (Key Range Upper)	

NOTE

- This is effective only when the [SPLIT] button is on (p. 29) in the key range settings.
- You cannot set the key range's lower limit higher than the upper limit, nor can you set the upper limit below the lower limit.

MEMO

- "FUL" is displayed when the [SPLIT] button is set to OFF. In this case, the [SPLIT] button is automatically switched on when the value is changed to something other than "FUL" with the [DEC] [INC] buttons or the VALUE dial.
- You can use Layer switch for each individual layer to select whether or not MIDI Note messages for that layer are to be transmitted (p. 59).

Changing the Range That Plays in Response to the Velocity (Velocity Range)

This specifies the lower limit (LWR) and upper limit (UPR) of the range in which the tone is played according to how strongly the keys are played (velocity). Make this setting when you want the tone to change depending on the key velocity.

Parameter	Value
VRL (Velocity Range Lower)	1–127
VRU (Velocity Range Upper)	

NOTE

If you set the minimum velocity to a value above the upper limit, or set the maximum velocity to a value that is below the lower limit, the setting for the other limit is changed to the same value.

Changing Tone Elements (ATK/DCY/REL/COF/RES)

You can make changes in tones by adjusting the settings of the following five elements.

ATK (Attack Time Offset):
The time it takes after the key is pressed for a sound to reach full volume.

DCY (Decay Time Offset):
This is the time over which the volume decays after the attack is finished.

REL (Release Time Offset):
The time it takes after the key is released for a sound to become inaudible.

COF (Cutoff Offset):
Adjusts how much the filter is opened.

RES (Resonance Offset):
This boosts the portions in the region around the cutoff frequency, lending a particular quality to the sound. Excessively high settings can produce oscillation, causing the sound to distort.

Parameter	TX CC#	Value	Description
ATK	CC73	- - - (OFF), -64–+63	Higher values produce a milder attack; lower values produce a sharper attack.
DCY	CC75		The time it takes for the volume to fall increases as the value is raised; lowering the value decreases the decay time.
REL	CC72		Higher values produce longer decay; set lower values for a clear-cut sound.
COF	CC74		Higher values brighten the sound; lower values make the sound seem darker.
RES	CC71		Higher value makes the special quality of the sound stronger; lower value reduce these characteristics.

Smoothly Changing the Pitch (Portamento)

Portamento is a function that causes the pitch to change smoothly from one note to the next note played.

The Portamento Time setting determines the time for the change in pitch when the portamento effect is applied to the sound. Higher settings will cause the pitch change to the next note to take more time.

Parameter	TX CC#	Value
POR (Portamento Switch)	CC65	---, OFF, ON
P.T (Portamento Time)	CC5	---, 0–127

Setting the Change in Volume According to the Force Used to Play the Keyboard (Velocity Sense/Max)

Set the change in volume that occurs in response to the force used to play the keyboard (velocity) and the maximum value of the change.

Sns (Velocity Sense):
This setting determines how the volume changes in response to the velocity.

MAX (Velocity Max):
This is the maximum velocity value produced when you play the keyboard.

Parameter	Value	Description
Sns (Velocity Sense)	-63–+63	The volume is increased as the keyboard is played with greater force when a positive Value is used; when a negative value is selected, the volume decreases as the keys are played with greater force. If this is set to "0," the volume will not be affected by the strength of your playing on the keyboard.
MAX (Velocity Max)	1–127	Lowering this value will produce softer notes even if you play the keyboard strongly.

Changing the Pitch (Coarse Tune/Fine Tune)

Here you can adjust the pitch of the tone.

Parameter	RPN	Description	Value
C.T (Coarse Tune)	00H/ 02H	Sets the sound's pitch in semitone units.	- - - (OFF), -48– +48 (+/- 4 octaves)
F.T (Fine Tune)	00H/ 01H	Sets the sound's pitch in units of one cent.	- - - (OFF), -50– +50 (+/- 50 cents)

MEMO

1 cent = 1/100 semitone

Setting the Range for the Change in Pitch with the Pitch Bend Lever (Bend Range)

This sets the amount of pitch change that will occur when you move the Pitch Bend lever (4 octaves).

Parameter	RPN	Value
B.R (Bend Range)	00H/00H	- - - (OFF), 0–48 (semitone)

Setting the Amount of Modulation Applied (Modulation Depth)

This sets the depth of the effect when the Modulation lever is tilted.

Parameter	RPN	Value
M.D (Modulation Depth)	00H/05H	- - - (OFF), 0–127

Turning Each Controller On and Off

These settings determine whether the external MIDI device is controlled (ON), or not (OFF) by the pedals connected to each PEDAL jack, the slider, the Modulation lever, the Pitch Bend lever, and [S1] [S2] buttons.

Parameter	Description	Value
Dp	Damper pedal	ON, OFF
F1	Pedal connected to the FC1 jack	
F2	Pedal connected to the FC2 jack	
PB	Pitch Bend Lever	
Md	Modulation Lever	
S1	[S1] button	
S2	[S2] button	
LW2	CONTROL Slider (LW2)	
LW1	CONTROL Slider (LW1)	
UP2	CONTROL Slider (UP2)	
UP1	CONTROL Slider (UP1)	

Transmitting the Control Change (USER CC)

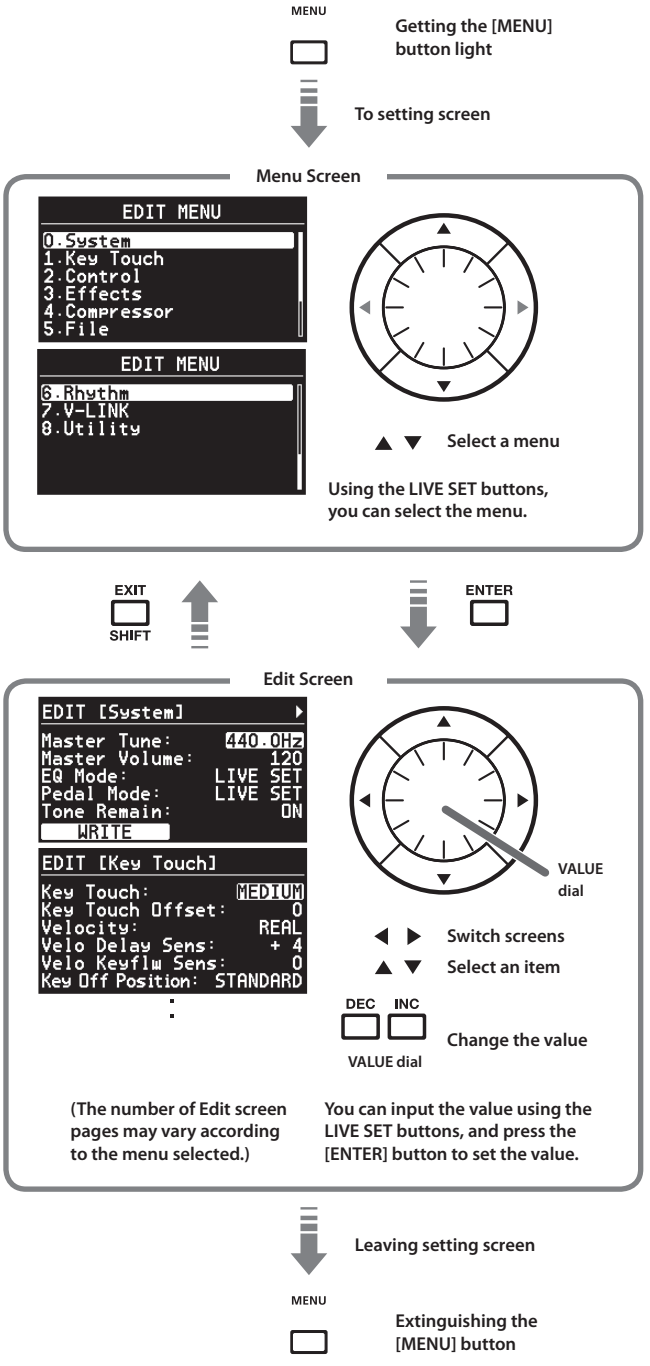
You can assign and transmit two different control change messages.

Parameter	Value
CC1 (User CC1 Number)	- - - (OFF), 0–127
Value (User CC1 Value)	
CC2 (User CC2 Number)	
Value (User CC2 Value)	

Detailed Settings for Each Function

The MENU button can be used to make a variety of settings.

Setting Parameters



MEMO

The following settings will be stored as common settings for the entire RD-700NX when you press the [LAYER EDIT] (WRITE) button in an edit screen.

0. System

4. Compressor

7. V-LINK

However, following settings are not saved.

- V-LINK On or Off

Parameters That Can Be Set

Menu	Parameter	Page
0. System	Master Tune	p. 67
	Master Volume	p. 67
	EQ Mode	p. 67
	Pedal Mode	p. 67
	Tone Remain	p. 68
	S1/S2 Mode	p. 68
	Live Set Control Channel	p. 69
	USB Driver	p. 69
	USB Memory Mode	p. 69
	USB MIDI Thru Switch	p. 69
	MIDI OUT3 Port Mode	p. 69
	Damper Polarity	p. 69
	FC1 Polarity	p. 69
	FC2 Polarity	p. 69
	Part Mode	p. 69
	Temperament	p. 70
	Temperament Key	p. 70
	Rx. GM/GM2 System ON	p. 70
	Rx. GS Reset	p. 70
1. Key Touch	Key Touch	p. 71
	Key Touch Offset	p. 71
	Velocity	p. 71
	Velocity Delay Sensitivity	p. 71
	Velocity Keyfollow Sensitivity	p. 71
	Key Off Position	p. 71
2. Control	FC1 Pedal Assign	p. 72
	FC2 Pedal Assign	p. 72
	S1 Assign	p. 73
	S2 Assign	p. 73
	Slider Assign	p. 73
	MFX Control Destination	p. 73
	Harmonic Bar	p. 73
3. Effects	Reverb Type	p. 74
	Reverb Parameters	p. 74
	Chorus Type	p. 75
	Chorus Parameters	p. 75

Menu	Parameter	Page
4. Compressor	Type	p. 76
	Split Frequency L	p. 76
	Split Frequency H	p. 76
	Depth	p. 76
	Level	p. 76
	Attack Time	p. 76
	Release Time	p. 76
	Threshold	p. 76
	Ratio	p. 76
5. File	Live Set Save	p. 77
	Live Set Load	p. 78
	Live Set Delete	p. 78
	Live Set Copy	p. 79
	SONG Delete	p. 80
	SONG Copy	p. 80
	Format	p. 81
6. Rhythm	Tempo	p. 82
	Rhythm Volume	p. 82
	Rhythm Pattern	p. 82
	Rhythm Set	p. 82
	MIDI Out Port	p. 82
	MIDI Out Channel	p. 82
7. V-LINK	V-LINK Mode	p. 83
	V-LINK Tx. Channel	p. 83
	V-LINK Out Port	p. 83
	Key Range	p. 83
	Lowest No.	p. 83
	Local ON/OFF	p. 83
8. Utility	Song Function	p. 84
	Rec Setting	p. 86
	Factory Reset Current	p. 85
	Factory Reset All	p. 85

Making System Settings

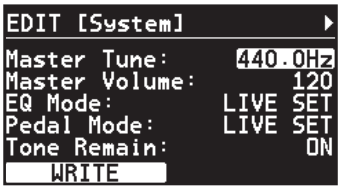
Functions that affect the RD-700NX's overall operating environment are called "System functions."

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▲] button to select "0.System."

3. Press the [ENTER] button to display the Edit screen.



4. Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to the parameter to be set.

5. Use the [DEC] [INC] buttons or the VALUE dial to set the value.

If you press the [DEC] button and [INC] button simultaneously, the setting will return to its default value.

Alternatively, you can use the LIVE SET buttons to enter the value and press the [ENTER] button to finalize it.

6. When you have finished making the settings, press the [MENU] button, extinguishing its indicator.

You are returned to the Live Set screen.

You'll be returned to the Live Set screen or the One Touch screen.

MEMO

If you want to save this settings, press the [LAYER EDIT] (WRITE) button. Settings saved in the RD-700NX are not deleted even when the power is turned off. However, following settings are not memorized.

Tuning to Other Instruments' Pitches (Master Tune)

For a cleaner ensemble sound while performing with one or more other instruments, ensure that each instrument's basic pitch is in tune with that of the other instruments. In general, the tuning of an instrument is indicated by the pitch in Hertz (Hz) of the middle "A" note.

Parameter	Value
Master Tune	415.3–440.0–466.2

Adjusting the Volume (Master Volume)

Adjusts the volume of the entire RD-700NX.

Parameter	Value
Master Volume	0–127

Preventing Equalizer Settings from Being Switched (EQ Mode)

You can store different equalizer settings (p. 35) for each individual Live Set (p. 44).

This setting determines whether or not the Live Set equalizer settings values are to be changed when Live Sets are switched.

Parameter	Value	Description
EQ Mode	Live Set	Equalizer settings change when Live Sets are switched.
	SYSTEM	Equalizer settings do not change when Live Sets are switched.

Preventing Pedal Settings from Being Switched (Pedal Mode)

Pedal settings (p. 72) can be stored for each Live Set (p. 44).

This setting determines whether or not the pedal settings are switched to the values stored in the Live Set you are switching to.

Parameter	Value	Description
Pedal Mode	Live Set	Pedal settings change when Live Sets are switched.
	SYSTEM	Pedal settings do not change when Live Sets are switched.

Assigning the Pedal Function When Pedal Mode is Set to "SYSTEM"

When this is set to SYSTEM, "Pedal Setting" appears in the lower right of the screen. Pressing the [TONE EDIT] (Pedal Setting) button at this point calls up the screen for the function assigned to the pedal.

Parameter	Value	Function/Parameter Setting Changed
FC1 **FC2**	00: OFF	No control
	CC00–CC127	Controller Numbers 0–127
	129: BEND UP	The pitch will rise in the same way as when you move the Pitch Bend lever toward the right.
	130: BEND DOWN	The pitch will fall in the same way as when you move the Pitch Bend lever toward the left.
	131: AFTERTOUCH	Controls aftertouch.
	132: OCTAVE UP	Each pedal press raises the key range in octave steps (up to 4 octaves higher).
	133: OCTAVE DOWN	Each pedal press lowers the key range in octave steps (up to 4 octaves lower).
	134: START/STOP	The external sequencer will start/stop.
	135: TAP TEMPO	The tempo will be modified to the interval at which you press the pedal.
	136: RHY PLY/STP	Starts and stops rhythms (p. 37).
	137: SONG PLY/STP	Starts and stops the song (p. 38).
	138: SONG RESET	Returns you to the beginning of the song.
	139: MFX1 SW	Turns on/off multi-effect 1 (p. 41) for the layer specified by MFX Control Destination.
	140: MFX2 SW	Turns on/off multi-effect 2 (p. 41) for the layer specified by MFX Control Destination.
	141: MFX 1 CTRL	Adjusts the amount of multi-effect 1 (p. 41) for the layer specified by MFX Control Destination.
	142: MFX 2 CTRL	Adjusts the amount of multi-effect 2 (p. 41) for the layer specified by MFX Control Destination.
	143: ROTARY SPEED	When using the rotary effect, switches the rotary effect between slow and fast.
	144: SOUND FOCUS	Adjusts the depth of the Sound Focus effect.

Parameter	Value	Function/Parameter Setting Changed
FC1 FC2	145: Live Set UP	Switches the Live Sets in ascending order.
	146: Live Set DOWN	Switches the Live Sets in descending order.

Retaining the Current Tone Even When Tones are Switched (Tone Remain)

This setting specifies whether the currently heard sound will continue (ON) or not (OFF) when another tone is selected.

Parameter	Value
Tone Remain	OFF, ON

NOTE

- Effects settings change as soon as you switch to a new Tone, without being influenced by the Tone Remain setting. Because of this, certain effects settings can cause notes that were until then sounding to no longer be heard, even though Tone Remain has been set to ON.
- Even if Tone Remain is set to ON, the sound of the current tone is not carried over when changing from a Virtual Tone wheel tone to a non-Virtual Tone wheel tone.

Preventing the [S1] [S2] buttons from Being Switched (S1/S2 Mode)

The settings of the [S1] [S2] buttons can be stored for each Live Set (p. 44).

This setting determines whether or not the settings of the [S1] [S2] buttons are switched to the values stored in the Live Set you are switching to.

Parameter	Value	Description
S1/S2 Mode	Live Set	The settings of the [S1] [S2] buttons change when Live Sets are switched.
	SYSTEM	The settings of the [S1] [S2] buttons do not change when Live Sets are switched.

Assigning the [S1] [S2] buttons When S1/S2 Mode is Set to "SYSTEM"

When this is set to SYSTEM, "S1/S2 Setting" appears in the lower right of the screen. Pressing the [TONE EDIT] (S1/S2 Setting) button at this point calls up the screen for the function assigned to the [S1] [S2] buttons.

Parameter	Value	Function/Parameter Setting Changed
S1/S2	00: OFF	No control
	01: COUPLE +1OCT	Playing a key will also sound an additional note one octave higher.
	02: COUPLE -1OCT	Playing a key will also sound an additional note one octave lower.
	03: COUPLE +2OCT	Playing a key will also sound an additional note two octave higher.
	04: COUPLE -2OCT	Playing a key will also sound an additional note two octave lower.
	05: COUPLE +5TH	Playing a key will also sound an additional note a fifth (7 semitones) higher.
	06: COUPLE -4TH	Playing a key will also sound an additional note a fourth (5 semitones) lower.
	07: OCTAVE UP	Each time you press the button, the keyboard range will rise by an octave (maximum 4 octaves).
	08: OCTAVE DOWN	Each time you press the button, the keyboard range will lower by an octave (maximum 4 octaves).
	09: START/STOP	The external sequencer will start/stop.
	10: TAP TEMPO	The tempo will be modified to the interval at which you press the button.
	11: SONG PLY/STP	Starts and stops the song (p. 38).
	12: SONG RESET	Returns you to the beginning of the song.
	13: SONG BWD	Rewinds the song.
	14: SONG FWD	Fast-forwards the song.
	15: MFX1 SW	Turns on/off multi-effect 1 (p. 41) for the layer specified by MFX Control Destination.
	16: MFX2 SW	Turns on/off multi-effect 2 (p. 41) for the layer specified by MFX Control Destination.
	17: ROTARY SPEED	When using the rotary effect, switches the rotary effect between slow and fast.
	18: Live Set UP	Switches the Live Sets in ascending order.
	19: Live Set DOWN	Switches the Live Sets in descending order.
	20: PANEL LOCK	Switches the Panel Lock (p. 36) on and off.

Using Program Change Messages to Switch Live Sets (Live Set Control Channel)

You can switch the RD-700NX's Live Sets with MIDI messages from an external MIDI device.

Parameter	Value	Description
Live Set Ctrl Ch (Live Set Control Channel)	1–16	Set the MIDI Receive channel for receiving the MIDI messages (Bank Select and Program Change) from the external MIDI device to be used for switching Live Sets.
	OFF	When not switching Live Sets from an external MIDI device, set this to OFF.

NOTE

When the Live Set Control Channel settings are transmitted along with the part's MIDI receive channel, switching of Live Sets takes priority over the switching of tones.

You can download the materials on MIDI from the Roland website.

Roland website:
http://www.roland.com/

Selecting the USB Driver (USB Driver)

Refer to the "Switching USB Drivers" (p. 90)

Switching the USB Memory Mode (USB Memory Mode)

Refer to the "Changing the USB Memory Setting" (p. 90)

Selecting the USB MIDI Thru Switch (USB MIDI Thru Switch)

Refer to the "Using the RD-700NX as a USB MIDI Interface" (p. 90)

Selecting the Function of the MIDI THRU/OUT 3 Connector (MIDI OUT3 Mode)

This setting specifies the function of the RD-700NX's MIDI THRU/OUT 3 connector.

Parameter	Value	Description
MIDI OUT3 Mode	THRU	If you choose "THRU," the connector will function as MIDI THRU, retransmitting without change the MIDI messages that are received at the MIDI IN connector. Performance data from the RD-700NX itself will no longer be sent from this connector.
	OUT	If you choose "OUT," the connector will function as MIDI OUT, and will transmit data from the keyboard and controllers to an external MIDI device.

Switching the Pedal's Polarity (Damper/FC1/FC2 Polarity)

Switch the polarity of pedals connected to the RD-700NX.

This can be set individually for each of the Pedal jacks on the rear panel (FC1, FC2, DAMPER).

On some pedals, the electrical signal output by the pedal when it is pressed or released is the opposite of other pedals.

If your pedal has an effect opposite of what you expect, set this parameter to reverse.

If you are using a Roland pedal (that has no polarity switch), set this parameter to STANDARD.

Parameter	Value
Damper Polarity	STND (STANDARD), REV (REVERSE)
FC1 Polarity	
FC2 Polarity	

Selecting the Number of Parts (Part Mode)

This selects the number of parts for the RD-700NX.

Parameter	Value	Description
Part Mode	16PART	If you select "16PART," the keyboard part you yourself play can use the same part as the song data, meaning that you can specify program changes or bank selections within the song data so that the tone of the keyboard part will be switched automatically.
	16PART+PERF (Performance)	When set to "16PART+PERF," the performance on the keyboard is not affected by MIDI messages from the MIDI IN connector or song data played by the RD-700NX. This is useful when you want to perform on the keyboard while playing song data with the RD-700NX.

Setting the Tuning Method (Temperament/Key)

This sets the tuning and keynote (tonic).

Most modern songs are composed and played with the assumption that equal temperament will be used, but when classical music was composed, there were a wide variety of other tuning systems in existence. Playing a composition with its original tuning lets you enjoy the sonorities of the chords that the composer originally intended.

When playing with tuning other than equal temperament, you need to specify the keynote for tuning the song to be performed (that is, the note that corresponds to C for a major key or to A for a minor key).

If you choose an equal temperament, there's no need to select a keynote.

Parameter	Value	Description
Temperament	EQUAL	Equal Temperament This tuning divides an octave into 12 equal parts. Every interval produces about the same amount of slight dissonance.
	JUST MAJ	Just (Major) This scale eliminates dissonance in fifths and thirds. It is unsuited to playing melodies and cannot be transposed, but is capable of beautiful sonorities.
	JUST MIN	Just (Minor) The scales of the major and minor just intonations are different. You can get the same effect with the minor scale as with the major scale.
	PYTHAGORE	Pythagorean This scale devised by the philosopher Pythagoras eliminates dissonance in fourths and fifths. Dissonance is produced by third-interval chords, but melodies are euphonious.
	KIRNBERGE	Kirnberger This scale is a modification of the meantone and just intonations that permits greater freedom in transposition to other keys. Performances are possible in all keys (III).
	MEANTONE	Mean Tone This scale makes some compromises in just intonation, enabling transposition to other keys.
	WERCKMEIS	Werckmeister This is a combination of the mean tone and Pythagorean scales. Performances are possible in all keys (first technique, III).
	ARABIC	Arabic Scale This scale is suitable for Arabic music.
Temperament Key	C, C#, D, Eb, E, F, F#, G, G#, A, Bb, B	Sets the keynote.

Switching Between Reception of GM/GM2 System On and GS Reset (Rx GM/GM2 System ON, Rx GS Reset)

Specifies whether General MIDI System On, General MIDI 2 System On, or GS Reset messages from external MIDI devices will be received (ON) or not (OFF).

Parameter	Value
Rx.GM/GM2 Sys On	ON, OFF
Rx.GS Reset	

Setting the Keyboard Touch

You can make advanced settings for the touch used for the keys.

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "1.Key Touch."

3. Press the [ENTER] button to display the Edit screen.

4. Press the Cursor [▼] [▲] buttons to move the Cursor to the parameter to be set.

5. Use the [DEC] [INC] buttons or the VALUE dial to set the value.

If you press the [DEC] button and [INC] button simultaneously, the setting will return to its default value.

Alternatively, you can use the LIVE SET buttons to enter the value and press the [ENTER] button to finalize it.

6. When you have finished making the settings, press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Changing the Key Touch (Key Touch)

The setting below allows you to adjust the response you get from the keyboard when you finger the keys.

Parameter	Value	Description
Key Touch	SPR LIGHT	An even lighter setting than LIGHT.
	LIGHT	This sets the keyboard to a light touch. You can achieve fortissimo (ff) play with a less forceful touch than MEDIUM, so the keyboard feels lighter. This setting makes it easy to play, even for children.
	MEDIUM	This sets the keyboard to the standard touch. You can play with the most natural touch. This is the closest to the touch of an acoustic piano.
	HEAVY	This sets the keyboard to a heavy touch. You have to finger the keyboard more forcefully than MEDIUM in order to play fortissimo (ff), so the keyboard touch feels heavier. Dynamic fingering adds even more feeling to what you play.
	SPR HEAVY	An even heavier setting than HEAVY.

MEMO

- This setting will change automatically depending on the Key Touch Offset setting described below.

Making Fine Adjustments to the Keyboard Touch (Key Touch Offset)

This setting provides even more precise adjustment of the key touch than available with the Key Touch setting alone.

Here you can make additional detailed adjustments to the playing response of the keyboard.

Parameter	Value	Description
Key Touch Offset	-10–+9	The touch sensitivity becomes heavier as the value increases.

MEMO

When this parameter is set to a value that exceeds the upper or lower limit, the setting for Key Touch (one of five possible values) is automatically changed to accommodate the value you've specified.

Setting a Constant Volume Level in Response to the Playing Force (Velocity)

This sets the sound to play at a fixed volume, regardless of the strength used to play the keyboard (the velocity).

Parameter	Value	Description
Velocity	REAL	Volume levels and the way sounds are played change in response to the velocity.
	1–127	Regardless of how strongly you play the keyboard, the volume or character of the sound will be fixed at the velocity you specify.

Changing the Timing of Sounds in Response to the Velocity (Velo Delay Sens)

This sets the interval from the time the key is played to when the sound is produced.

Parameter	Value	Description
Velo Delay Sens (Velocity Delay Sensitivity)	-63–+63	As the value is decreased, the timing of the sound is delayed more when more force is used to play the keys. As the value is increased, the timing of the sound is delayed more when less force is used to play the keys.

Changing the Touch Sensitivity According to the Key Range (Velo Keyflw Sens)

This setting changes the touch sensitivity according to the key range being used.

Parameter	Value	Description
Velo Keyflw Sens (Velocity Keyfollow Sensitivity)	-63–+63	As the value is increased, the touch becomes heavier in the upper registers, and lighter in the lower keys.

Specifying the Note-off Keyboard Depth (Key Off Position)

Parameter	Value	Description
Key Off Position	STANDARD	Note-off will occur at the key depth of a conventional piano.
	DEEP	Note-off will occur at a deeper position. This is suitable for electric piano sounds.

Pedal/[S1] [S2] Buttons Assignments

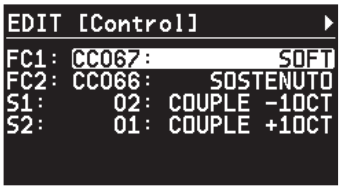
Here's how to change the functions that are assigned to the pedals, the [S1] [S2] buttons, and the sliders.

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "2.Control."

3. Press the [ENTER] button to display the Edit screen.



4. Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to the parameter to be set.

5. Use the [DEC] [INC] buttons or the VALUE dial to set the value.

6. When you have finished making the settings, press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Assigning Functions to Pedals (FC1/FC2 Pedal Assign)

This setting determines the function of the pedal switches (such as the optional DP series) or expression pedals (such as the optional EV-5/7) that are connected to the FC1 and FC2 jacks on the rear panel.

Parameter	Value	Function/ Parameter Setting Changed
FC1 FC2	00: OFF	No control
	CC00–CC127	Controller Numbers 0–127
	129: BEND UP	The pitch will rise in the same way as when you move the Pitch Bend lever toward the right.
	130: BEND DOWN	The pitch will fall in the same way as when you move the Pitch Bend lever toward the left.
	131: AFTERTOUCH	Controls aftertouch.
	132: OCTAVE UP	Each pedal press raises the key range in octave steps (up to 4 octaves higher).
	133: OCTAVE DOWN	Each pedal press lowers the key range in octave steps (up to 4 octaves lower).
	134: START/STOP	The external sequencer will start/stop.
	135: TAP TEMPO	The tempo will be modified to the interval at which you press the pedal.
	136: RHY PLY/STP	Starts and stops Rhythms (p. 37).
	137: SONG PLY/STP	Starts and stops the song (p. 38).
	138: SONG RESET	Returns you to the beginning of the song.
	139: MFX1 SW	Turns on/off multi-effect 1 (p. 41) for the layer specified by MFX Control Destination.
	140: MFX2 SW	Turns on/off multi-effect 2 (p. 41) for the layer specified by MFX Control Destination.
	141: MFX 1 CTRL	Adjusts the amount of multi-effect 1 (p. 41) for the layer specified by MFX Control Destination.
	142: MFX 2 CTRL	Adjusts the amount of multi-effect 2 (p. 41) for the layer specified by MFX Control Destination.
	143: ROTARY SPEED	When using the rotary effect, switches the rotary effect between slow and fast.
	144: SOUND FOCUS	Adjusts the depth of the Sound Focus effect.

Assigning Functions to the [S1] [S2] Buttons (S1/S2 Assign)

This setting determines the function of the [S1] and [S2] buttons.

Parameter	Value	Function/ Parameter Setting Changed
S1/S2	00: OFF	No control
	01: COUPLE +1OCT	Playing a key will also sound an additional note one octave higher.
	02: COUPLE -1OCT	Playing a key will also sound an additional note one octave lower.
	03: COUPLE +2OCT	Playing a key will also sound an additional note two octave higher.
	04: COUPLE -2OCT	Playing a key will also sound an additional note two octave lower.
	05: COUPLE +5TH	Playing a key will also sound an additional note a fifth (7 semitones) higher.
	06: COUPLE -4TH	Playing a key will also sound an additional note a fourth (5 semitones) lower.
	07: OCTAVE UP	Each time you press the button, the keyboard range will rise by an octave (maximum 4 octaves).
	08: OCTAVE DOWN	Each time you press the button, the keyboard range will lower by an octave (maximum 4 octaves).
	09: START/STOP	The external sequencer will start/stop.
	10: TAP TEMPO	The tempo will be modified to the interval at which you press the button.
	11: SONG PLY/STP	Starts and stops the song (p. 38).
	12 SONG RESET	Returns you to the beginning of the song.
	13 SONG BWD	Rewinds the song.
	14 SONG FWD	Fast-forwards the song.
	15: MFX1 SW	Turns on/off multi-effect 1 (p. 41) for the layer specified by MFX Control Destination.
	16: MFX2 SW	Turns on/off multi-effect 2 (p. 41) for the layer specified by MFX Control Destination.
	17: ROTARY SPEED	When using the rotary effect, switches the rotary effect between slow and fast.

Assigning Functions to the LAYER LEVEL Sliders (Slider Assign)

Here you can assign the function that the LAYER LEVEL sliders will perform when the CONTROL indicator is lit.

Parameter	Value	Function/ Parameter Setting Changed
UP1/UP2/ LW1/LW2 (Slider Assign)	00: OFF	No control
	CC00–CC127	Controller Numbers 0–127
	129: BEND UP	Raises the pitch
	130: BEND DOWN	Lowers the pitch
	131: AFTERTOUCH	Controls After Touch
	132: MFX1 CTRL	Adjusts the amount of multi-effect 1 (p. 41) for the layer specified by MFX Control Destination.
	133: MFX2 CTRL	Adjusts the amount of multi-effect 2 (p. 41) for the layer specified by MFX Control Destination.

Specifying the Destination Layer for Multi-Effect Control (MFX Ctrl Dest)

Here you can specify the layer that will be affected when using FC1/FC2, S1/S2, or a slider to control the multi-effect.

Parameter	Value	Description
MFX Ctrl Dest (MFX Control Destination)	UPPER 1, UPPER 2, LOWER 1, LOWER 2	The multi-effect of the layer you specify here can be controlled.

Changing the Harmonic Bar Settings (Harmonic Bar)

Refer to the "Changing the Layer LEVEL Slider Feet Assignments" (p. 43)

Reverb/Chorus Settings

Here you can edit the reverb and chorus settings.

NOTE

Making abrupt changes in the settings values may cause the sound to become distorted or overly loud. Carefully monitor volume levels while making the settings.

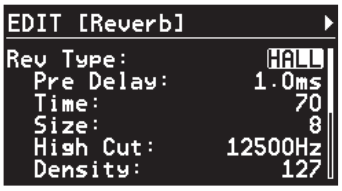
1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

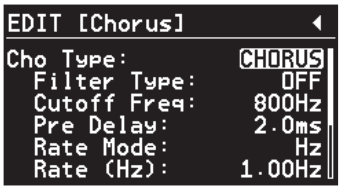
2. Press the Cursor [▼] [▲] buttons to select "3.Effects."

3. Press the [ENTER] button to display the Edit screen.

"Reverb" Settings Screen



"Chorus" Settings Screen



4. Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to the parameter to be set.

5. Use the [DEC] [INC] buttons or the VALUE dial to set the value.

6. When you have finished making the settings, press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Making Reverb Settings

Reverb adds the reverberation characteristics of halls or auditoriums. Six different types are offered, so you can select and use the type that suits your purpose.

You can set the amount of reverb applied separately for each individual tone (p. 56).

Reverb Type

Select the reverb type.

When you change the Reverb Type, the Reverb parameters will be automatically adjusted to the optimal values. Rather than setting the reverb parameters one by one, you can make the settings more easily by first setting the Reverb Type and then changing only the necessary parameters.

The way the [REVERB] button's indicators light changes with the selected type.

Parameter	Value	Description
Rev Type (Reverb Type)	OFF	No reverb is used. The indicator does not light.
	REVERB	Normal Reverb. The "HALL" indicator flashes.
	ROOM	Simulates the reverberation of room interiors. It produces a welldefined and spacious reverberation. The "ROOM" indicator remains lit.
	HALL	Simulates the reverberation exhibited by hall. It provides a deeper reverberation than the Room reverbs. The "HALL" indicator remains lit.
	PLATE	Simulates a plate reverb unit (a type of artificial reverb that utilized a metal plate). The "ROOM" indicator flashes.
	GM2 REVERB	This is a GM2 reverb. The "CATHEDRAL" indicator flashes.
	CATHEDRAL	This reproduces the reverb found in a church cathedral. The "CATHEDRAL" indicator remains lit.

Other Reverb Settings

You can make even more detailed reverb settings.

When you select a Reverb Type, a number of parameters unique to that type are displayed.

Setting Chorus and Delay

Chorus adds depth and spaciousness to the sound. You can select whether to use this as a chorus effect or a delay effect.

You can set the amount of Chorus applied separately for each individual tone (p. 56).

Chorus Type

You can select the chorus type.

When you change the Chorus Type, the Chorus parameters will be automatically adjusted to the optimal values. Rather than setting the chorus parameters one by one, you can make the settings more easily by first setting the Chorus Type and then changing only the necessary parameters.

The way the [CHORUS/DELAY] indicators light changes with the selected type.

Parameter	Value	Description
Cho Type (Chorus Type)	OFF	Chorus or Delay is not used. The indicator does not light.
	CHORUS	Normal Chorus. The "CHORUS" indicator remains lit.
	DELAY	Normal Delay. The "DELAY" indicator remains lit.
	GM2 CHORUS	This is a GM2 reverb. The "CHORUS" indicator flashes.

Other Chorus Settings

You can make even more detailed chorus/delay settings.

When you select a Chorus Type, a number of parameters unique to that type are displayed.

Making the Compressor Settings

This is a stereo compressor (limiter) that is applied to the final output.

With separate settings for the high-frequency range, midrange, and low-frequency range, this reduces inconsistencies in volume levels by compressing the sound when the volume exceeds a preset volume level.

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "4.Compressor."

3. Press the [ENTER] button to display the Edit screen.

4. Press the Cursor [▲] button to select "Type."

5. Use the [DEC] [INC] buttons or the VALUE dial to set the type of compressor.

6. Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to the parameter to be set.

With certain parameters, pressing the [TONE EDIT] (L → M → H) button selects the low-frequency range, midrange, or high-frequency range.

7. Use the [DEC] [INC] buttons or the VALUE dial to set the value.

8. Press the [LAYER EDIT] (WRITE) button.

The confirmation message appears.

9. Press the [ENTER] button.

The settings are written to Compressor Type "USER."

10. When you have finished making the settings, press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Selecting the Type of Compressor (Type)

When you change the this parameter, the Compressor parameters will be automatically adjusted to the optimal values.

You can make the settings easily by first setting the Compressor Type and then changing only the necessary parameters.

Parameter	Value	Description
Type (Compressor Type)	HARD COMP	Applies strong compression.
	SOFT COMP	Applies mild compression.
	LOW BOOST	Boosts the low end.
	MID BOOST	Boosts the midrange.
	HI BOOST	Boosts the high end.
	USER	The saved settings are written.

Detailed Settings of Compressor

Parameter	Value	Description
Split Freq L	40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800 [Hz]	This sets the frequency separating the low-frequency range (LOW) and midrange (MID).
Split Freq H	400, 500, 630, 800, 1000, 1250, 1600, 2000, 2500, 3150, 4000, 5000, 6300, 8000 [Hz]	This sets the frequency separating the high-frequency range (HIGH) and midrange (MID).
Depth	ORIGINAL, +1–+127	When set to ORIGINAL, the resulting effect will be exactly as specified by the settings. The higher the value, the deeper the effect.
Level	0–24 dB (1 dB/1 Step)	Output Level
Attack Time	0–100 ms	This sets the time it takes until the level is compressed after the input exceeds the Threshold.
Release Time	50–5000 ms	This sets the time it takes for the compression to be released after the input falls below the Threshold.
Threshold	-36 dB–0 dB (1 dB/1 step)	This sets the level at which compression begins.
Ratio	1:1.0, 1:1.1, 1:1.2, 1:1.4, 1:1.6, 1:1.8, 1:2.0, 1:2.5, 1:3.2, 1:4.0, 1:5.6, 1:8.0, 1:16, 1: INF	Compression Ratio

File Management

Saving a Live Set File (LIVE SET Save)

A single, individual file containing a collection of 100 Live Sets registered to the RD-700NX is called a "Live Set file."

This Live Set file can be saved in the RD-700NX's internal memory or on USB memory (sold separately) connected to the USB MEMORY connector.

MEMO

If you want to save the changed settings of a system parameter (p. 122), memorize settings by pressing the [LAYER EDIT] (WRITE) button, then save an Live Set file.

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "5.File," then press the [ENTER] button.

The Edit screen appears.

3. Press the Cursor [▲] button to select "0. Live Set Save," then press the [ENTER] button.

The following screen appears.

4. Press the [LAYER EDIT] (MEDIA) button to select the save destination for the Live Set file.

Value	Description
INT	The data will be stored in the RD-700NX's internal memory.
USB	The data will be stored on USB memory connected to the USB MEMORY connector on the rear panel.

5. Press the Cursor [◀] [▶] buttons to move the cursor to the positions where the characters are to be input.

6. Use the [DEC] [INC] buttons or the VALUE dial to enter the name.

Names can consist of up to 16 characters.

The following characters are available.

space ! # $ % & ' ( ) + , - . 0–9 ; = @ A–Z [ ] ^ _ ` a–z { } ~

When the [TONE EDIT] (DELETE) button is pressed, a single-character blank space is inserted; while holding down the [SHIFT] button, press the [TONE EDIT] (INSERT) button to delete one character.

NOTE

You can't save a Live Set file with a name that starts with a ". (period)". Do not use a ". (period)" at the beginning of the name.

7. Repeat steps 5–6 to input the name.

8. When you've finished entering the file name, press the [ENTER] button.

The Live Set file will be saved.

NOTE

"Executing..." appears in the display while the save is in progress. Be sure never to turn off the power.

MEMO

If a file with the same name has already been saved, the confirmation message "Overwrite OK?" appears. To overwrite the Live Set file, press the [ENTER] button; to save the file under a different name, press the [EXIT/SHIFT] button.

9. Press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Calling Up Live Set Files (LIVE SET Load)

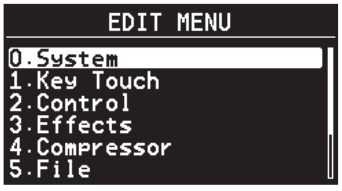
Here's how to load a previously saved Live Set file.

NOTE

The current settings are erased when a Live Set file is called up. Be sure to save you would like to keep first before calling up (p. 77).

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.



2. Press the Cursor [▼] [▲] buttons to select "5.File," then press the [ENTER] button.

The Edit screen appears.

3. Press the Cursor [▼] [▲] buttons to select "1. Live Set Load" then press the [ENTER] button.

The following screen appears.

4. Press the [LAYER EDIT] (MEDIA) button to select the memory into which you want to load the data.

5. When loading System parameter settings, press the [TONE EDIT] (System) button to check in the check box.

MEMO

System Parameter is following settings.

- Edit "1. System" settings (p. 66)
- Edit "7. V-LINK" settings (p. 83)
- Favorite Live Set settings (p. 44)
- One-Touch Piano, One-Touch E. Piano settings (p. 46, p. 50)
- Pedal assignment for when Pedal Mode is set to SYSTEM (p. 67)
- Compressor settings (p. 76)

The system parameter is memorized by only the Live Set file saved after pressing the [LAYER EDIT] (WRITE) button to memorize a Live Set to RD-700NX.

6. Use the Cursor [▼] [▲] buttons or the VALUE dial to select the file you want to call up, then press the [ENTER] button.

The confirmation message appears.

If you do not want to load the Live Set file, press the [EXIT/SHIFT] button.

7. Press the [ENTER] button once again to load the Live Set file.

The Live Set file is loaded into the RD-700NX.

NOTE

Be sure never to turn off the power while the load is in progress.

MEMO

If you load a file with a name that contains characters that cannot be displayed by the RD-700NX, the file name is displayed as "?."

8. Press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Deleting a Live Set File (LIVE SET Delete)

Here's how to delete a previously saved Live Set file.

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "5.File," then press the [ENTER] button.

The Edit screen appears.

3. Press the Cursor [▼] [▲] buttons to select "2. Live Set Delete," then press the [ENTER] button.

The following screen appears.

4. Press the [LAYER EDIT] (MEDIA) button to select the memory containing the Live Set file you want to delete.

5. Use the Cursor [▼] [▲] buttons or the VALUE dial to select the Live Set file that you want to delete, and press the [ENTER] button.

The confirmation message appears.

If you do not want to delete the Live Set file, press the [EXIT/SHIFT] button.

MEMO

If you choose "ALL," all Live Set files will be deleted.

6. Press the [ENTER] button to delete the Live Set file.

NOTE

Be sure never to turn off the power while the delete is in progress.

7. Press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

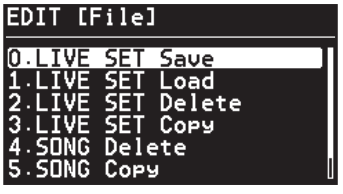
Copying a Live Set File (LIVE SET Copy)

You can copy a Live Set file from the RD-700NX's internal memory to USB memory (sold separately).

You can also copy a Live Set file from USB memory to the RD-700NX's internal memory.

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

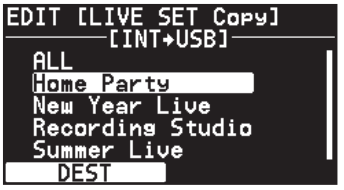


2. Press the Cursor [▼] [▲] buttons to select "5.File," then press the [ENTER] button.

The Edit screen appears.

3. Press the Cursor [▼] [▲] buttons to select "3. Live Set Copy," then press the [ENTER] button.

The following screen appears.



4. Press the [LAYER EDIT] (DEST) button to select the type of copy.

Parameter	Description
INT→USB	Copy from the RD-700NX's internal memory to USB memory.
USB→INT	Copy from USB memory to the RD-700NX's internal memory.

5. Use the Cursor [▼] [▲] buttons or the VALUE dial to select the Live Set file that you want to copy.

If you do not want to copy the file, press the [EXIT/SHIFT] button.

MEMO

If you choose "ALL," all Live Set files will be copied.

6. Press the [ENTER] button to copy the Live Set file.

NOTE

Be sure never to turn off the power while the copy is in progress.

MEMO

If a file with the same name has already been saved, the confirmation message "Overwrite OK?" appears. To overwrite the Live Set file, press the [ENTER] button; to save the file under a different name, press the [EXIT/SHIFT] button.

7. Press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Deleting a Song (SONG Delete)

This operation deletes a saved song.

1. Press the [MENU] button, getting the indicator to light.

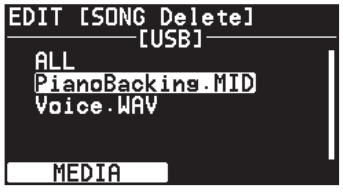
The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "5.File," then press the [ENTER] button.

The Edit screen appears.

3. Press the Cursor [▼] [▲] buttons to select "4. SONG Delete," then press the [ENTER] button.

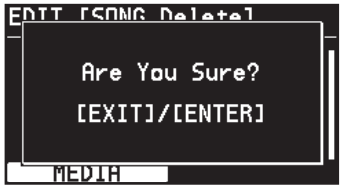
The following screen appears.



4. Press the [LAYER EDIT] (MEDIA) button to select the memory containing the song you want to delete.

5. Use the Cursor [▼] [▲]] buttons or the VALUE dial to select the song that you want to delete, and press the [ENTER] button.

The confirmation message appears.



If you do not want to delete the song, press the [EXIT/SHIFT] button.

MEMO

If you choose "ALL," all songs will be deleted.

6. Press the [ENTER] button to delete the song.

NOTE

Be sure never to turn off the power while the delete is in progress.

7. Press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Copying a Song (SONG Copy)

You can copy a song file from the RD-700NX's internal memory to USB memory (sold separately).

You can also copy a song file from USB memory to the RD-700NX's internal memory.

1. Press the [MENU] button, getting the indicator to light.

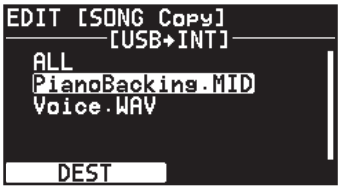
The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "5.File," then press the [ENTER] button.

The Edit screen appears.

3. Press the Cursor [▼] [▲] buttons to select "5. SONG Copy," then press the [ENTER] button.

The following screen appears.



4. Press the [LAYER EDIT] (DEST) button to select the type of copy.

Parameter	Description
INT→USB	Copy from the RD-700NX's internal memory to USB memory.
USB→INT	Copy from USB memory to the RD-700NX's internal memory.

5. Use the Cursor [▼] [▲] buttons or the VALUE dial to select the song that you want to copy.

If you do not want to copy the song, press the [EXIT/SHIFT] button.

MEMO

If you choose "ALL," all songs will be copied.

6. Press the [ENTER] button to copy the song.

NOTE

Be sure never to turn off the power while the copy is in progress.

MEMO

If a file with the same name has already been saved, the confirmation message "Overwrite OK?" appears. To overwrite the Song, press the [ENTER] button; to save the file under a different name, press the [EXIT/SHIFT] button.

7. Press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Formatting Memory (Format)

"Formatting" is an operation that returns the internal memory to the factory-set condition, or prepares USB memory for use with RD-700NX.

USB memory cannot be used with the RD-700NX unless it is formatted suitably for the RD-700NX.

If you're using newly purchased USB memory, you must first format it on the RD-700NX.

NOTE

When you format the USB memory, all data previously saved on that memory will be erased. Before you carry out a format, make sure that the USB memory does not contain important data you need to keep.

1. Press the [MENU] button, getting the indicator to light.

The Edit screen appears.

2. Press the Cursor [▼] [▲] buttons to select "5.File," then press the [ENTER] button.

The Edit screen appears.

3. Press the Cursor [▼] [▲] buttons to select "6. Format," then press the [ENTER] button.

The following screen appears.

4. Press the [LAYER EDIT] (MEDIA) button to select the media that you want to format.

5. Press the [ENTER] button.

The confirmation message appears.

If you decide to cancel the Format operation, press the [EXIT/SHIFT] button.

6. Press the [ENTER] button once again to execute the Format operation.

All the contents of the memory will be erased.

7. Press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

NOTE

- Never turn off the power while the screen indicates "Executing..."
- Don't disconnect the USB memory until formatting is completed.

Making the Rhythm Settings

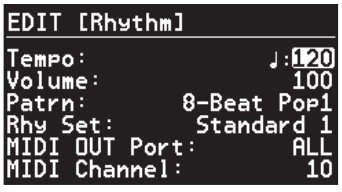
The RD-700NX features internal drum patterns complementing Jazz, Rock, and other various musical genres. This kind of drum pattern is called a "Rhythm."

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "6.Rhythm."

3. Press the [ENTER] button to display the Edit screen.



4. Press the Cursor [▼] [▲ buttons to move the Cursor to the parameter to be set.

5. Use the [DEC] [INC] buttons or the VALUE dial to edit the value.

6. When you have finished making the settings, press the [MENU] button, extinguishing its indicator.

You'll be returned to the Live Set screen or the One Touch screen.

Adjusting the Tempo (Tempo)

Specify the tempo of the Rhythm.

Parameter	Value
Tempo	10–500

MEMO

The way Rhythm is played and the tempo display may differ with some Rhythm Patterns.

Adjusting the Volume (Volume)

Adjusts the volume of the Rhythm.

Parameter	Value
Volume	0–127

Changing Patterns (Pattern)

This selects the Rhythm pattern. Select from 200 options.

MEMO

You can also change a Rhythm's pattern in the "Rhythm screen" (p. 37).

Changing the Drum Set (Rhy Set)

You can change a Rhythm's drum set (set of drum and percussion tones).

MEMO

When this setting is changed, the Part 10 Tone also changes.

NOTE

Depending on the Rhythm Set that is selected, the Rhythm Set may not play back properly.

Selecting the MIDI Output Connector (MIDI Out Port)

This sets the MIDI connector (port) from which the Rhythm part is to be output.

Parameter	Value
MIDI Out Port	ALL, INT (INTERNAL), 1 (MIDI OUT 1), 2 (MIDI OUT 2), 3 (MIDI OUT 3), USB

NOTE

If the System parameter "MIDI OUT3 MODE" setting (p. 110) is set to THRU, the Rhythm will not be output even if you choose the "3 (MIDI OUT 3)" setting.

Selecting the MIDI Output Channel (MIDI Channel)

This sets the channel used for outputting Rhythm parts as MIDI output.

Parameter	Value
MIDI Channel (MIDI Out Channel)	OFF, 1–16

About V-LINK

V-LINK (V-LINK) is a function that provides for the play of music and visual material. By using V-LINK-compatible video equipment, visual effects can be easily linked to, and made part of the expressive elements of a performance.

For example, if you use the RD-700NX in conjunction with the P-10, you'll be able to do the following.

MEMO

In order to use V-LINK between the RD-700NX and the P-10, you'll need to make connections using a MIDI cable (sold separately).

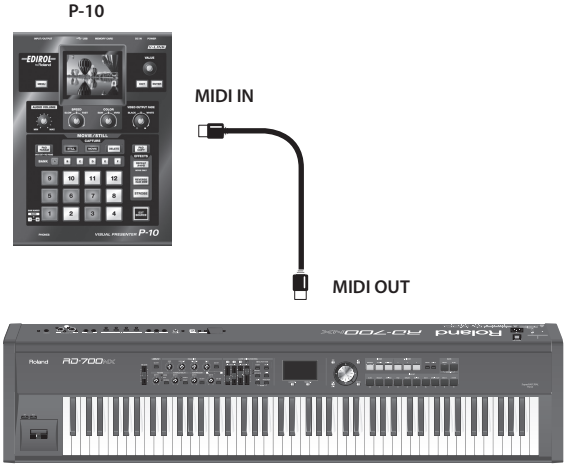
Connection Examples

As an example, we will use a Live Set in which the RD-700NX is connected to the P-10.

Use a MIDI cable to connect the RD-700NX's MIDI OUT connector to the MIDI IN connector of the P-10.

NOTE

Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.



Turning the V-LINK ON/OFF

1. Press the [V-LINK] button.

The [V-LINK] button will light, and the V-LINK setting will be on.

In this state, you can operate the keyboard to manipulate images in sync with the playback of the RD-700NX.

2. Press the [V-LINK] button again.

The [V-LINK] button will go out, and the V-LINK setting will be off.

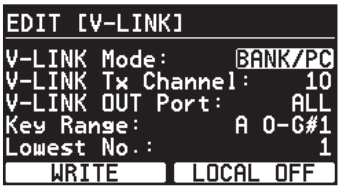
V-LINK Settings

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "7.V-LINK."

3. Press the [ENTER] button to display the Edit screen.



4. Press the Cursor [▼] [▲] buttons to move the Cursor to the parameter to be set.

5. Use the [DEC] [INC] buttons or the VALUE dial to edit the value.

6. When you have finished making the settings, press the [MENU] button.

You are returned to the previous screen.

MEMO

If you want to save this settings, press the [LAYER EDIT] (WRITE) button. Settings saved in the RD-700NX are not deleted even when the power is turned off.

Detailed Settings of V-LINK

Parameter	Value	Description
V-LINK Mode	BANK/PC	PC (Clip) output with the white keys, Bank Select (Pallet) output with the black keys
	NOTE	Note output
V-LINK Tx Channel	1–16	This selects the MIDI channel used in outputting messages.
V-LINK OUT Port	ALL, OUT1, OUT2, OUT3, USB	This selects the port used for outputting messages. If the System parameter "MIDI OUT3 MODE" setting (p. 110) is set to THRU, V-LINK data will not be transmitted even if you choose the OUT 3 setting.
Key Range	A0–C8	This select the range of keys to use as the V-LINK controller.
Lowest No.	This sets the number that is output when the lowest key in the range set with Key Range is pressed.	
	1–128	When V-LINK Mode is set to BANK/PC
	0–127	When V-LINK Mode is set to NOTE

Local ON/OFF

This setting determines whether or not the RD-700NX's sounds are played when a key within the range set with Key Range is pressed.

The function is alternately turned on or off each time press the [TONE EDIT] button in the EDIT V-LINK screen.

Parameter	Value	Description
Local ON/OFF	LOCAL OFF	No sounds are played, even when keys in the range set in Key Range are pressed.
	LOCAL ON	Sounds are played when keys in the range set in Key Range are pressed.

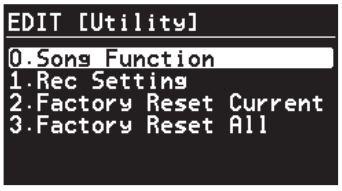
Changing Settings Related to Song Playback

You can change a variety of settings related to song playback.

1. **Press the [MENU] button, getting the indicator to light.**

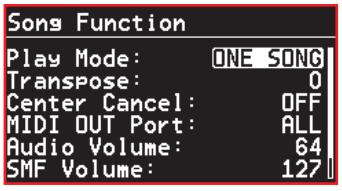
   The Menu screen appears.

2. **Press the Cursor [▼] [▲] buttons to select "8.Utility," and press the [ENTER] button to display the Edit screen.**



3. **Press the Cursor [▼] [▲] buttons to select "0. Song Function," and press the [ENTER] button.**

   The following screen appears.



4. **Press the Cursor [▼] [▲] buttons to move the cursor to the parameter to be set.**

5. **Use the [DEC] [INC] buttons or the VALUE dial to set the value.**

   If you press the [DEC] button and [INC] button simultaneously, the setting will return to its default value.

6. **When you have finished making the settings, press the [MENU] button, extinguishing its indicator.**

Parameter	Value	Description
Play Mode	ONE SONG	When you play back a song, only one song will play; playback will stop at the end of that song.
	ALL SONG	The songs in internal memory or in USB memory will play consecutively.
Transpose	-6–0–+5	This lets you shift the playback key of a song in semitone steps.
Center Cancel	OFF, ON	When playing back audio data, this causes sounds located in the center (e.g., vocals or melodic instruments) to be reduced in volume.
MIDI OUT Port	ALL, INT (INTERNAL), 1 (MIDI OUT 1), 2 (MIDI OUT 2), 3 (MIDI OUT 3), USB	This sets the MIDI connector (port) from which the song is to be output.
Audio Volume	0–127	This sets the volume for audio file playback.
SMF Volume	0–127	This sets the volume for SMF music data playback. The volume will not change if Part Mode (p. 69) is set to 16PART.

NOTE

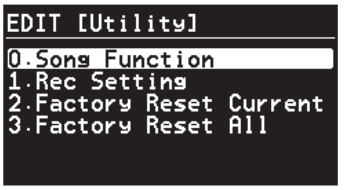
For some songs, using Center Cancel might affect the tone quality.

Selecting the parts that will produce sound

1. **Press the [MENU] button, getting the indicator to light.**

   The Menu screen appears.

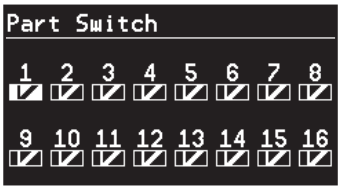
2. **Press the Cursor [▼] [▲] buttons to select "8.Utility," and press the [ENTER] button to display the Edit screen.**



3. **Press the Cursor [▼] [▲] buttons to select "0. Song Function," and press the [ENTER] button.**

4. **Choose "Part Switch," and press the [ENTER] button.**

   The playback part switch setting screen will appear.



5. **Use the cursor [◀] [▶] buttons to select a part, and use the [DEC] [INC] buttons or the VALUE dial to turn that part on/off.**

6. **When you have finished making the settings, press the [MENU] button, extinguishing its indicator.**

Parameter	Value	Description
Part Switch	OFF, ON	Turns each part on/off for song playback.

Restoring the Settings to the Factory Condition

The settings stored in the RD-700NX can be returned to their factory settings.

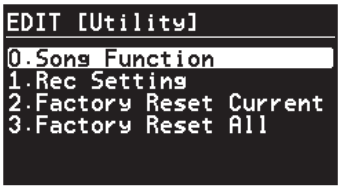
NOTE

- Executing "Factory Reset All" results in deletion of the Live Sets (p. 44). If you want to keep the recorded content, save the Live Set file to your USB memory (p. 77).
- When making USB connections, be absolutely sure to disconnect the USB cable before starting.

1. Press the [MENU] button, getting the indicator to light.

The Menu screen appears.

2. Press the Cursor [▼] [▲] buttons to select "8.Utility," and press the [ENTER] button to display the Edit screen.



3. Press the Cursor [▼] [▲] buttons to select "3. Factory Reset Current" or "4. Factory Reset All."

Parameter	Description
Factory Reset Current	The currently selected Live Set returned to their factory settings.
Factory Reset All	The settings stored in the RD-700NX can be returned to their factory settings.

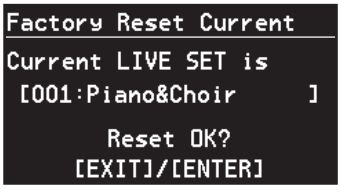
NOTE

While the Factory Reset is in progress, no sounds are produced even when the keys are pressed. In addition, Rhythms being played are also stopped.

Factory Reset Current

4. Press the [ENTER] button.

A screen like the one shown below appears.



NOTE

If you've selected One Touch, the settings of the ONE TOUCH PIANO buttons and the ONE TOUCH E. PIANO buttons will be reset.

5. Press the [ENTER] button.

The confirmation message appears.

To cancel the Factory Reset, press the [EXIT/SHIFT] button.

6. Press the [ENTER] button once again to start the Factory Reset operation.

NOTE

Never turn off the power during Factory Reset (while "Executing... Don't Power Off" appears in the display).

After the Factory Reset operation is finished, the Utility screen returns to the display.

Factory Reset All

4. Press the [ENTER] button.

A screen like the one shown below appears.

5. Press the [ENTER] button.

The confirmation message appears.

To cancel the Factory Reset, press the [EXIT/SHIFT] button.

6. Press the [ENTER] button once again to start the Factory Reset operation.

NOTE

Never turn off the power during Factory Reset (while "Executing... Don't Power Off" appears in the display).

7. Switch off the power, then turn it back on again.

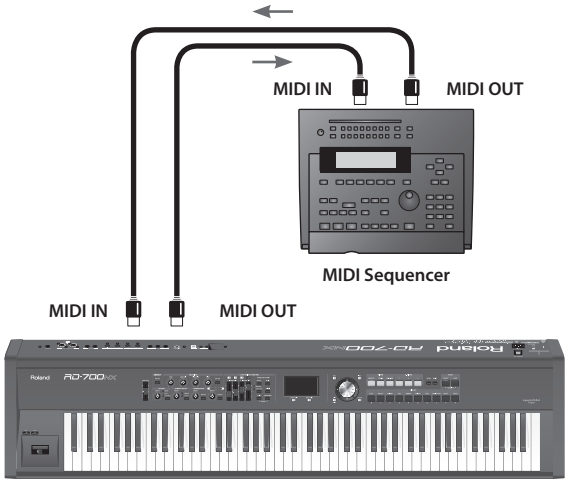
Recording RD-700NX Performances to an External MIDI Sequencer

Now, try using an external sequencer to record your music onto multiple tracks, and then play back the recorded performance.

Connecting to an External Sequencer

NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.



RD-700NX

1. **Before starting the connection procedure, make sure that the power to all devices has been turned off.**
2. **After reading "Connecting the External Equipment to RD-700NX" (p. 15), connect an audio device/system or headphones.**
3. **Connect the external MIDI sound device with the MIDI cable as shown in the figure above.**
4. **As described in "Turning On the Power" (p. 17), turn on the power of each device.**

Settings for Recording

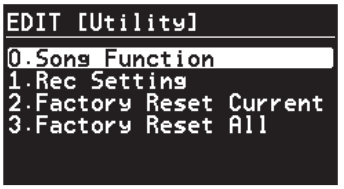
"Rec Mode" is a convenient feature to use when recording to an external sequencer.

When using the Rec Mode function, you can get the most suitable settings for recording the RD-700NX's data to an external sequencer, without having to make all the Part and channel settings.

1. **Press the [MENU] button, getting the indicator to light.**

The Menu screen appears.

2. **Press the Cursor [▼] [▲]] button to select "8.Utility."**
3. **Press the [ENTER] button to display the Edit screen.**



4. **Press the Cursor [▼] [▲] buttons to select "1. Rec Setting."**
5. **Press the [ENTER] button, and the following screen will appear.**

Parameter	Value	Description
Rec Mode	ON, OFF	Ordinarily this will be set to OFF. When this is set to ON, settings appropriate for recording are used with respect to the output from MIDI OUT, regardless of the INTERNAL layer settings.
Local Switch		This switches the Local Switch on and off. Although normally set to ON, it should be set to OFF when recording. For details, refer to the following section "About the Local Switch" (p. 87).

6. **Use the cursor [▼] [▲] buttons to select the parameter you want to edit, and then use the [DEC] [INC] buttons or the VALUE dial to edit the value.**
7. **When you have finished making the settings, press the [MENU] button, extinguishing its indicator.**

You'll be returned to the Live Set screen or the One Touch screen.

NOTE

With Rec Mode set to ON, you cannot change the EXTERNAL Layer settings (p. 58). Pressing the [MIDI] button does not call up the MIDI screen when Rec Mode is set to ON.

Recording the Performance

Use the following procedure when recording to an external sequencer.

1. **Turn on the external sequencer's Thru function.**

For details, refer to the following section "About Local Switch."

Refer to your sequencer owner's manual for instructions on how to carry out this procedure.

2. **Select the Live Set for the performance to be recorded.**

For instructions on selecting the Live Set, refer to (p. 27).

3. Set the Rec Setting and Local Control.

Use the procedure described in the previous section "Settings for Recording" to make the following settings.

Parameter	Value
Rec Mode	ON
Local Switch	OFF

4. Begin recording with the external sequencer.

5. Perform on the RD-700NX.

6. When the performance is finished, stop recording with the external sequencer.

Recording is now complete.

You can then listen to the recorded performance by playing it back on the external sequencer.

Exiting Rec Mode

When Rec Mode is set to ON, you cannot change the EXTERNAL settings. When you have finished recording the performance, use the procedure described in the previous section "Settings for Recording" to set Rec Mode to OFF.

NOTE

The settings made in Rec Setting cannot be saved.

When you turn on the power, the Rec Setting parameters will be in the following state.

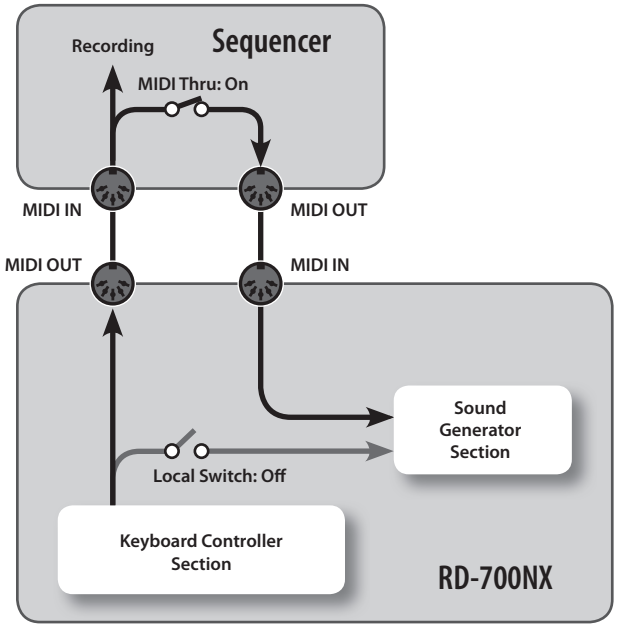
Parameter	Value
Rec Mode	OFF
Local Switch	ON

If the MIDI indicator is lit, you won't be able to turn Rec Mode ON.

About the Local Switch

The switch that connects and disconnects the MIDI connection between the keyboard controller section and the sound generator section (p. 20) is called the Local switch. Since essential information describing what is being played on the keyboard won't reach the sound generator if the Local switch is set to OFF, the Local switch should normally be left ON.

However, if while performing you want to send that performance data to an external sequencer as MIDI messages to be recorded, you then perform with the externally connected MIDI sequencer set to MIDI Thru (whereby data received from MIDI IN is then output from the MIDI OUT with no changes made to the data).



In this case, the data sent over two paths, i.e., the data sent directly from the keyboard controller section and the data sent from the keyboard controller section via the external sequencer, ends up being sent to the sound generator section simultaneously. Thus, for example, even when you play a "C" key only once, the note "C" cannot be sounded correctly, as the sound is played by the sound generator section twice.

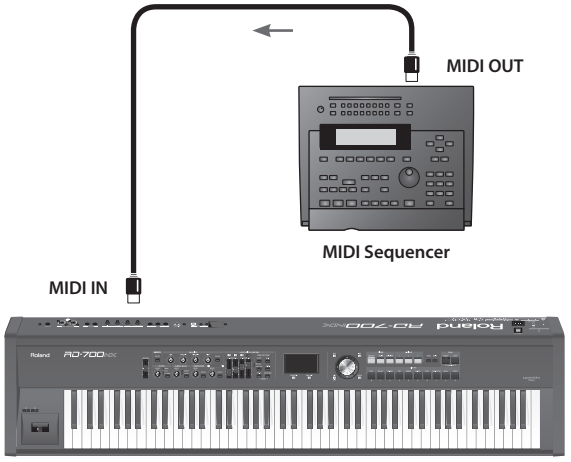
Playing the RD-700NX's Internal Sound Generator from an External MIDI Device

Try Playing the RD-700NX from an external MIDI Device.

Making Connections

NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.



1. **Before starting the connection procedure, make sure that the power to all devices has been turned off.**
2. **After reading "Connecting the External Equipment to RD-700NX" (p. 15), connect an audio device/system or headphones.**
3. **Connect the external MIDI device with the MIDI cable as shown in the figure above.**
4. **As described in "Turning On the Power" (p. 17), turn on the power of each device.**

Selecting RD-700NX Sounds from an External MIDI Device

Transmitting Bank Select (Controller Number 0, 32) and Program Change messages from the external MIDI device to the RD-700NX allows you to switch Live Sets and Tones.

You can download the materials on MIDI from the Roland website.

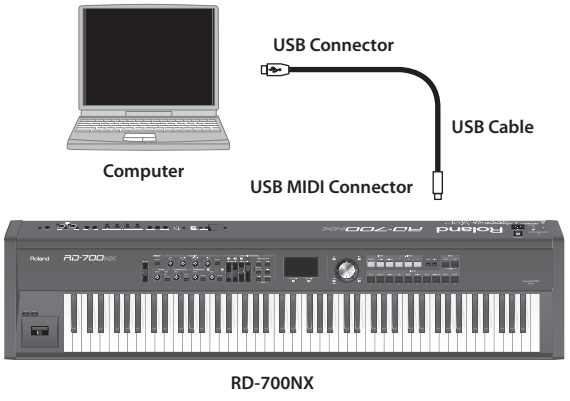
Roland website:
http://www.roland.com/

Connecting to Your Computer

Connecting to a Computer via the USB MIDI Connector

If you use a USB cable (commercially available) to connect the USB MIDI connector located on the RD-700NX's rear panel to the USB connector of your computer, you'll be able to do the following things.

- Use the RD-700NX to play SMF music files played back by MIDI-compatible software.
- By transferring MIDI data between the RD-700NX and your sequencer software, you'll be able to enjoy a wide range of possibilities for music production and editing.



NOTE

Refer to the Roland website for system requirements.

Roland website:
http://www.roland.com/

Depending on the type of computer you're using, this may not operate correctly.
For details on supported operating systems, refer to the Roland website.

Caution

- To avoid the risk of malfunction and/or speaker damage, always make sure to turn the volume all the way down and turn off the power on all equipment before you make any connections.
- Only MIDI data can be transmitted and received via USB.
- A USB cable is not included. If you need to obtain one, ask the dealer where you purchased the RD-700NX.
- Switch on power to the RD-700NX before you start up the MIDI application on your computer. Don't turn the RD-700NX's power on/off while your MIDI application is running.

You can download the original driver from the Roland website.

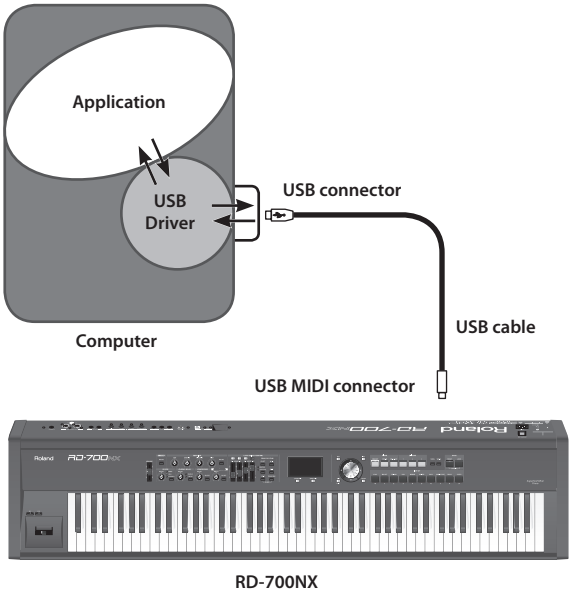
Roland website:
http://www.roland.com/

Specify the USB driver you want to use, and then install the driver. For details, refer to "Switching USB Drivers" (p. 90).

What is the USB MIDI Driver?

The USB MIDI Driver is a software which passes data between the RD-700NX and the application (sequencer software, etc.) that is running on the USB-connected computer.

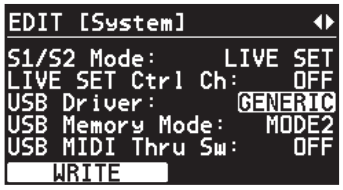
The USB MIDI Driver sends data from the application to the RD-700NX, and passes data from the RD-700NX to the application.



Switching USB Drivers

The USB driver to be used when a computer is connected to the USB connector is determined as follows:

1. **Press the [MENU] button.**
2. **Press the Cursor [▼] [▲] buttons to select "0.SYSTEM," and then press the [ENTER] button.**
3. **Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to "USB Driver."**



4. **Use the [DEC] [INC] buttons or the VALUE dial to select the USB driver you want to use.**

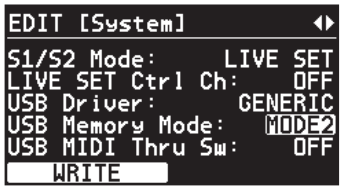
Parameter	Value	Description
USB Driver	ORIGINAL	Choose this if you want to use the USB driver you downloaded from the Roland website.
	GENERIC	Choose this if you want to use the standard USB driver that was included with your computer.

5. **Press the [LAYER EDIT] (WRITE) button.**
6. **Turn the power off, then on again.**

Changing the USB Memory Setting

In some cases, when USB memory is connected to the USB MEMORY connector, it may take longer for data to be loaded, or data may fail to be loaded successfully. If this occurs, you may be able to solve the problem by changing the USB memory setting.

1. **Press the [MENU] button.**
2. **Press the Cursor [▼] [▲]] buttons to select "0.SYSTEM," and then press the [ENTER] button.**
3. **Press the Cursor [◀] [▶] buttons to switch screens, and press the Cursor [▼] [▲] buttons to move the cursor to "USB Memory Mode."**



4. **Use the [DEC] [INC] buttons or the VALUE dial to edit the value.**

Parameter	Value
USB Memory Mode	Mode1, Mode2

5. **Press the [LAYER EDIT] (WRITE) button.**
6. **Turn the power off, then on again.**

Using the RD-700NX as a USB MIDI Interface

If the RD-700NX is connected to your computer, performance data from a MIDI device connected to the RD-700NX's MIDI IN connector can be sent to your computer.

Parameter	Value	Description
USB MIDI Thru Sw	OFF	Performance data from the device connected to the RD-700NX's MIDI IN connector will not be sent to your computer.
	ON	Performance data from the device connected to the RD-700NX's MIDI IN connector will be sent to your computer.

Troubleshooting

If the RD-700NX does not function in the way you expect, first check the following points. If this does not resolve the problem, consult your dealer or a nearby Roland Service Station.

*** If certain messages appear in the display during operation, please refer to "Error Messages/Other Messages" (p. 94).**

Problem	Check/Solution	Page
Power Not Coming On	Is the RD-700NX's power cord properly plugged into a power source as well as connected to the RD-700NX?	p. 14
Buttons don't Work	Could panel lock be active? Press the ONE TOUCH PIANO button, ONE TOUCH E. PIANO button, or [EXIT/SHIFT] button to disengage the panel lock.	p. 36
No Sound	Is the power for connected amps and speakers turned on? Is the volume turned all the way down?	p. 15
	Is the [VOLUME] slider turned all the way down?	p. 18
	Are all connections properly made? When using the RD-700NX as a stand-alone instrument, be sure to connect with audio cables or use headphones.	p. 15
	Are sounds audible with headphones connected? If sounds are audible through headphones, it may indicate that there is a short in an audio cable or some sort of amp or mixer problem. Check the cables and equipment once again.	–
	Is LAYER switch set to OFF?	p. 31 p. 59
	Is a Part's volume turned off with the LAYER LEVEL slider?	p. 31 p. 59
	(If the sound for a pressed key does is not being played) Is the Local Switch set to OFF? In the Utility Rec Setting in Edit mode, set the Local Switch to ON.	p. 83
	Are the effect settings correct? Check following settings. • ON/OFF settings for MFX1 and MFX2 • Effect balance and level	p. 41 p. 54
	Could the volume have been lowered by MIDI messages (volume messages or expression messages) received through pedal operations, an external MIDI device, or song data? Raise the Master Volume in the System section of Edit mode. Also raise the Pedal Volume and Control Volume in the Control section.	p. 67 p. 72
No Sound for Specific Part	Is the Part's volume level turned down? Check following settings. • LAYER LEVEL sliders • Volume settings in Layer edit mode	p. 31 p. 59 p. 56
No Sound From the Connected MIDI Device	Is the device enabled to transmit MIDI messages? Press the [MIDI] button so the indicator is lit, and turn the LAYER switch on. MIDI messages cannot be transmitted if LAYER switch is set to OFF.	p. 59
	Is the RD-700NX's controller section MIDI Transmit channel matched to the connected MIDI device's MIDI Receive channel? Make the Ch (MIDI Transmit Channel) settings in the MIDI screen.	p. 60
No Sound in a Specific Range	Has the range in which sounds are to be played (the key range) been set? Check following settings. • Settings for the LWR and UPR Layers in the MIDI screen • Key Range settings in LAYER EDIT	p. 62 p. 56
	With certain Tones, for example Rhythm Sets, bass Tones, and other Tones will not sound if a portion of the Tone falls outside the recommended range.	–
	Is V-LINK switched on? Set the Local ON/OFF to ON in the V-LINK Setting in Edit mode. Sounds are played with keyboard even when V-LINK is switched on.	p. 83

Problem	Check/Solution	Page
Tones Are Altered	Did you call up a Live Set? When a Live Set is called up, the current Tone, effect, and other settings are disabled, and the selected Live Set goes into effect. Resave required settings to a Live Set.	p. 44
	Did you press the ONE TOUCH PIANO button or the ONE TOUCH E. PIANO button? When the ONE TOUCH PIANO button or the ONE TOUCH E. PIANO button is pressed, the current Tone, effect, and other settings are disabled, and settings for use in piano performances go into effect. Resave required settings to a Live Set.	p. 26
	Is the Tone Control function assigned to the LAYER LEVEL slider? Check the "Slider Assign" settings of Control in Edit mode.	p. 73
	When a mono connection is used, the tone quality can vary depending on the tone selected and the register in which it is used. For optimal listening quality, connecting in stereo is recommended.	–
Tone Doesn't Change/Keyboard Not Switching to Split	Is the "MIDI" indicator lit? When the "MIDI" indicator is lit, the external sound generator is controlled. To change the RD-700NX's Tones and make settings in Keyboard mode, set the "MIDI" indicator to OFF.	p. 59
	Is the Layer containing the Tone you want to change set to ON?	p. 30
Rhythm Not Sounding	Could a song be playing?	p. 38
Effects Not Applied/Effects Sound Wrong	Is a TW-Organ 1–10 Tone selected? Effects are applied differently to the Tone Wheel than they are with other effects. When Tone Wheel is selected for multiple Parts, it is applied to all the Parts.	–
	Are the MFX1 and MFX2 set to OFF?	p. 41
	In some cases where the delay timing selected in the DELAY settings in Effects is set to a note value, the delay sound may not be heard. Either adjust the tempo or change the numerical value of the delay timing.	–
No Modulation When Modulation Lever is Moved	Could you have selected an organ tone? For some of the organ tones, the modulation lever cannot be used to apply a modulation effect. For such tones, the modulation lever is used to switch the rotary effect between slow and fast.	p. 42
	Could you have selected the SuperNatural E. Piano sound? You can't apply pitch bend or modulation effects to the SuperNatural E. Piano sound.	–
Can't obtain pitch bend effect when the pitch bend lever is moved	Is the Tone Wheel screen appearing in the display? The pitch bend effect cannot be applied with the pitch bend lever while the Tone Wheel screen is in the display. In this case, the pitch bend lever functions as a slow/fast switch for the Rotary effect.	p. 42
Sounds Come From Left or Right Each Time Key is Pressed (Panned)	In some Tones, the settings are such that sounds randomly play from the left or right side (are panned) each time the keys are pressed. These settings cannot be changed.	–
Sound is Distorted	Sounds can be distorted due to equalizer, multi-effect, and Part volume settings. Adjust the following settings. • LAYER LEVEL sliders • System Master Volume settings • Equalizer Input Gain settings	p. 31 p. 67 p. 35
	Is a distortion-type effect being applied to the sound?	–
Cannot Select the Tone Wheel Screen	The screen is displayed by selecting a Organ Tone (TW-Organ 1–10) for any layer in the Live Set screen, and then pressing Cursor the [▶] button.	p. 42
Key Range Settings Not Effective	Is the [SPLIT] button set to OFF? Key Range goes into effect when the [SPLIT] button set to ON.	p. 62 p. 56

Problem	Check/Solution	Page
Pitch is Odd	Depending on the Tone selected, pitches played in certain registers will be changed and played at other pitches.	–
	Is Coarse Tune or Fine Tune set for any specific Part? Check the following settings. • TONE EDIT Course Tune, Fine Tune • C.T and F.T setting in MIDI screen	p. 54 p. 63
	Has the RD-700NX gone out of tune? Check the following settings. • System Master Tune settings in Edit mode • System Temperament settings in Edit mode • Micro Tune settings in Piano Tone Edit mode	p. 67 p. 70 p. 48
	Has the pitch been changed by pedal operations or by Pitch Bend messages received from an external MIDI device?	–
	Have you set Transpose?	p. 32
Sound is Cut Off	When you try playing more than the maximum 128 voices simultaneously, sounds currently being played may be cut out. Increase the Voice Reserve settings for the Parts you do not want to have cut off.	p. 57
Sound continues even after removing fingers from keys	Is the pedal polarity reversed? Check the System Pedal Polarity settings in Edit mode.	p. 69
Exclusive Messages Cannot Be Received	Is the Device ID number of the transmitting device matched to the RD-700NX's Device ID number? Make sure that the transmitting unit is set to Device ID number 17.	–
Song Data Not Played Back Correctly	Is the Receive GM/GM2 System On Switch set to ON? Set the System Rx GM System On or System Rx GM2 System On to ON in Edit mode.	p. 70
	Are you playing back GS Format song data? Once the RD-700NX receives a GS Reset message, it then is enabled for GS Format. This permits playback of music files bearing the GS logo (GS music files). However, data created exclusively for the Sound Canvas Series may not play back properly on the RD-700NX.	–
	Is the audio data playable? Make sure that the audio data can be played by the RD-700NX.	p. 95
Pedal function is not affected	Is the System Pedal Mode setting in Edit mode set to "SYSTEM"? Set this to "Live Set".	p. 67
[S1] [S2] buttons' function is not affected	Is the System S1/S2 Mode setting in Edit mode set to "SYSTEM"? Set this to "Live Set".	p. 68
Nothing appears in the screen	Since the RD-700NX uses a liquid crystal screen, it may happen that no text or graphics appear in the screen if the temperature is below zero degrees Celsius (32 degrees Fahrenheit).	–
Vertical lines appear in the screen/ Color is "washed out" at the edges of the screen	These occur due to the nature of a liquid crystal display, and do not indicate a malfunction. They can be minimized by adjusting the contrast of the screen.	–
Screen display is irregular when power is turned on/off	This is due to the nature of an LCD screen; it does not indicate a malfunction.	–
Pedal does not work, or is "stuck"/Pedal does not operate correctly	Is the pedal connected correctly? Plug the cord firmly into the pedal jack.	p. 16
	Are you using a pedal made by another manufacturer? Use the pedal included with the RD-700NX or an optional DP Series or similar pedal.	p. 15
Can't read or write USB memory successfully	Are you using (optional) Roland USB memory? Reliable performance cannot be guaranteed if you use non-Roland USB memory products.	–
	If you are unable to read or write USB memory successfully, change the USB Memory Mode setting.	p. 69
Reverberation remains even if you defeat the Reverb effect	The RD-700NX's piano sound faithfully simulates the depth and resonance of an acoustic piano, and this may give the impression of reverberation even if you've defeated the Reverb effect.	–

Problem	Check/Solution	Page
The sound of the higher notes suddenly changes from a certain key	On an acoustic piano, the approximately one and a half octaves of notes at the top of the keyboard will continue sounding regardless of the damper pedal. These notes also have a somewhat different tonal character. RD-700NX faithfully simulate this characteristic of acoustic pianos. On the RD-700NX, the range that is unaffected by the damper pedal will change according to the key control setting.	–
High-pitched ringing is heard	Piano sounds that have a brilliant and crisp character contain substantial high-frequency components that may sound as though a metallic ringing has been added. This is because the character of an actual piano is being faithfully reproduced, and is not a malfunction. You can adjust this ringing by editing the following settings. • Duplex scale settings (p. 47) • String resonance settings (p. 47) • Reverb depth (p. 33)	–
Low notes sound wrong, or are buzzy	With certain tones, the sounds may seem to be distorted. Turn down the volume. Alternatively, lower the master gain setting.	–
Can't rewind or fastforward	You can not rewind or fast-forward while music files is being read in. Wait until processing finishes.	–
	If you attempt to play back performance data that contains more data than the entire capacity of the RD-700NX's memory, you may find that operations other than playback (such as rewind or fast forward) become unavailable.	–
Songs in USB memory are not played immediately	SMF music files comes in two types; Formats 0 and 1. In the case of format 1 data, it may take a certain amount of time for playback to begin. The format type is indicated on the booklet for the music files you're using.	–

List of Messages

Error Messages

Indication	Situation	Action
Error 1 **You can only read the music file.**	You can only read the music file. It can not be saved.	–
Error 2 **An error occurred during writing.**	An error occurred during writing. The external media's protect tab may be in the "Protect" (writing prohibited) position, or the external media may not yet be initialized.	–
Error 10 **No storage media is inserted.**	No external media is inserted.	Insert the external media and try again.
Error 11 **Insufficient free memory at the save destination.**	There is not sufficient free memory in the save destination.	Either use different external media, or delete unneeded files before you try the operation again.
Error 14 **An error occurred during reading**	An error occurred during reading. The external media may be corrupted.	Insert other external media and try again. Alternatively, you can initialize the external media.
Error 15 **The data format is not compatible with this instrument.**	The file is unreadable. The data format is not compatible with the RD-700NX.	Only files in the following formats can be used. • Live Set files with an extension of "RDS" (*) • SMF music files with an extension of "MID" • Audio files with an extension of "WAV," or "MP3" For details on audio file formats, refer to "Types of audio files that the RD-700NX can play" (p. 95).
Error 16 **Data could not be read fast enough for playback of the song.**	Data was not called up in time for playback of the song.	You may be able to play the song after waiting a few seconds.
Error 18 **Supports 44.1kHz 16-bit linear mono or stereo audio format and MP3 format.**	This audio format is not supported.	Please use 44.1 kHz 16-bit linear WAV format audio files or MP3.

Indication	Situation	Action
Error 30 **The internal memory capacity of the RD-700NX is full.**	The internal memory capacity of the RD-700NX is full.	–
Error 40 **The instrument can't deal with the excessive MIDI data.**	The RD-700NX cannot deal with the excessive MIDI data sent from the external MIDI device.	Reduce the amount of MIDI data sent to the RD-700NX.
Error 41 **A MIDI cable has been disconnected.**	A MIDI cable has been disconnected.	Connect it properly and securely.
Error 43 **A MIDI transmission error has occurred.**	A MIDI transmission error has occurred.	Check the MIDI cable and connected MIDI device.
Error 51 **System error. Repeat procedure, or power off, then on.**	There may be a problem with the system.	Repeat the procedure from the beginning. If it is not solved after you have tried several times, contact the Roland service center.
Error 65 **The USB Memory port was subjected to excessive current.**	The USB MEMORY connector was subjected to excessive current.	Make sure that there is no problem with the external media, then turn the power off, then on again.

(*) The RD-700NX cannot read RD-700SX setup files.

Other Messages

Indication	Situation	Action
Unavailable while in Rec Mode	This is displayed when the [MIDI] button is pressed with Rec Mode "ON."	When Rec Mode is "ON," you cannot change the MIDI settings. To make changes to the MIDI settings, set Rec Mode to "OFF" (p. 86).
File Exists. Overwrite OK?	A file with the same name is already exists.	If you execute the procedure, the file will be overwrite. If you don't want to overwrite, change a filename.
Panel is Locked	The panel is locked.	Press the [EXIT/SHIFT] button to cancel Panel Lock (p. 36).

Types of audio files that the RD-700NX can play

● WAV

Sampling Frequency	44.1 kHz
Bit Depth	16-bit
File Extension	".wav"

● MP3

Format	MPEG-1 audio layer 3
Sampling Frequency	44.1 kHz
Bit Rate	32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 kbps, VBR (Variable Bit Rate)
File Extension	".mp3"

Caution when Playing Back Audio Files

Playing back an MP3 file or changing the playback tempo of an audio file places a significant processing burden on the RD-700NX, and in some cases may cause it to be unable to completely process all of the performance data from the keyboard.

If this occurs, you may be able to solve the problem by taking the following actions.

- Use WAV format data rather than MP3 format data
- Return the song tempo to its original setting (to 0%)

Effect List

MFX

00:	THRU
01:	EQUALIZER
02:	SPECTRUM
03:	ISOLATOR
04:	LOW BOOST
05:	SUPER FILTR
06:	STEP FILTER
07:	ENHANCER
08:	AUTO WAH
09:	HUMANIZER
10:	SP.SIMULATR
11:	PHASER
12:	STEP PHASER
13:	MULT PHASER
14:	INF PHASER
15:	RING MODLTR
16:	STEP R.MOD
17:	TREMOLO
18:	AUTO PAN
19:	STEP PAN
20:	SLICER
21:	ROTARY
22:	VK ROTARY
23:	CHORUS
24:	FLANGER
25:	STEP FLANGR
26:	HEXA-CHORUS
27:	TREMOLO CHO
28:	SPACE-D
29:	3D CHORUS
30:	3D FLANGER
31:	3D S.FLANGR
32:	2BND CHORUS
33:	2BND FLANGR
34:	2BND S.FLN
35:	OVERDRIVE
36:	DISTORTION
37:	VS OVRDRIVE
38:	VS DIST
39:	GTR AMP SIM
40:	COMPRESSOR
41:	LIMITER
42:	GATE
43:	DELAY
44:	LONG DELAY
45:	SERIAL DLY
46:	MOD DELAY
47:	3TP PAN DLY
48:	4TP PAN DLY
49:	MULTTAP DLY
50:	REVERSE DLY
51:	SHUFFLE DLY
52:	3D DELAY
53:	T-CTRL DLY
54:	LONG TC DLY
55:	TAPE ECHO
56:	LOFI NOISE
57:	LOFI COMPRS
58:	LOFI RADIO
59:	TELEPHONE
60:	PHONOGRAPH
61:	PCH SHIFTER
62:	2V P.SHIFTR
63:	S.P.SHIFTER
64:	REVERB
65:	GATED REV
66:	OVDRV→CHO
67:	OVDRV→FLNGR
68:	OVDRV→DELAY
69:	DIST→CHORUS
70:	DIST→FLANGR
71:	DIST→DELAY
72:	ENH→CHORUS
73:	ENH→FLANGER
74:	ENH→DELAY
75:	CHO→DELAY
76:	FLN→DELAY
77:	CHO→FLANGER
78:	VR CHORUS
79:	VR TREMOLO
80:	VR AUTO WAH
81:	VR PHASER
82:	ORGAN MULTI
83:	LINEDRIVE
84:	SMALL PHASR

Chorus

0:	OFF
1:	CHORUS
2:	DELAY
3:	GM2 CHORUS

Reverb

0:	OFF
1:	REVERB
2:	ROOM
3:	HALL
4:	PLATE
5:	GM2 REVERB
6:	CATHEDRAL

About the Ivory Feel Keyboard

Features of an Ivory Feel keyboard

Traditional piano keys are made from the best materials-ivory (for white keys) and ebony (for black keys). The Ivory Feel keyboard uses the latest in technology to reproduce the touch and feel of these materials.

An Ivory Feel keyboard offers the following features.

- We're sure you'll develop a fondness for the distinctive texture of these keys, which feels better the more you play them.
- Surfaces incorporate stripes of moisture-absorbing material for improved touch and playability.
- The keys feature subtle gloss and understated coloring, enhancing the look and elegance.
- The white keys are finished with a slight yellowish tinge for the look of real ivory.

Handling

- Do not write on the keyboard with any pen or other implement, and do not stamp or place any marking on the instrument. Ink will seep into the surface lines and become unremovable.
- Do not affix stickers on the keyboard. You may be unable to remove stickers that use strong adhesives, and the adhesive may cause discoloration.

Care and Maintenance

Please note the following points. Failure to do so may result in scratches on the surface finish, damaged gloss, or other discoloration or deformation.

- To remove dirt, use a soft cloth.

  Using a moistened and tightly wrung-out cloth, gently wipe off any dirt.

  Do not rub the surface vigorously.
- To remove stubborn dirt, use a commercially available keyboard cleaner that does not contain abrasives.

  Start by wiping lightly.

  If the dirt does not come off, wipe using gradually increasing amounts of pressure while taking care not to scratch the keys.
- Do not use benzene, paint thinner, or alcohol on the instrument.

Main Specifications

RD-700NX: Digital Piano (Conforms to General MIDI 2 System)

[Keyboard Section]	
	88 keys (PHA III Ivory Feel Keyboard with Escapement)
[Sound Generator Section]	
Maximum Polyphony	128 voices
Parts	Live Set (4 layers) +16 parts
Sound Generator	SuperNATURAL Piano SuperNATURAL E. Piano Virtual Tone Wheel Organ PCM Sound Generator GM2 (for SMF Playback)
Live Set	Preset: 300 User: 100
Effects	Multi-Effects: 2 x 4 systems, 84 types Reverb: 6 types Chorus: 3 types 3-band Compressor 4-band Digital Equalizer
[SMF/Audio File Player]	
File Format	Standard MIDI File: format-0/1 Audio File: WAV (44.1 kHz, 16-bit linear), MP3
[Recorder Section]	
File Format	Audio File: WAV (44.1 kHz, 16-bit linear)
[Others]	
Rhythm Pattern	200 patterns
Controllers	LAYER LEVEL slider x 4 (Assignable) EQUALIZER knobs x 4 REVERB knob CHORUS knob COMPRESSOR knob SOUND FOCUS knob Pitch Bend/Modulation lever S1/S2 Buttons (Assignable)
Display	Graphic LCD 240 x 128 dots
Connectors	OUTPUT Jacks (L/MONO, R): 1/4-inch phone type OUTPUT Jacks (L, R): XLR type DAMPER Pedal Jack CONTROL Pedal Jack (FC1, FC2) MIDI Connectors (IN, OUT1, OUT2, THRU/OUT3) USB Connectors (MIDI, MEMORY) PHONES Jack: Stereo 1/4-inch phone type AC IN connector
Power Consumption	12 W
Dimensions	1,444 (W) x 375 (D) x 148 (H) mm, (56-7/8 x 14-13/16 x 5-7/8 inches)
Weight	25.0 kg (55 lbs 2 oz)
Accessories	Owner's Manual Damper Pedal (capable of continuous detection) Power Cord

In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

Index

A

AC Inlet 12
ATK 63
Attack Time (Offset) 55
Audio Volume 84

B

BALANCED OUT Jacks 12
Bar Angle 51
Bell Character 51
Bell/Thump 51
Bend Range 55
B.R (Bend Range) 64
[BRILLIANT] Button 11

C

CC1 (User CC1 Number) 64
CC2 (User CC2 Number) 64
CD drive 19
Center Cancel 84
CHO (Chorus) 62
Chorus 33
Chorus Amount 56
[CHORUS/DELAY] Button 10
CHORUS/DELAY [DEPTH] Knob 10
Cho Type (Chorus Type) 75
Coarse Tune 54
COF 63
Compressor 34
[COMPRESSOR] Knob 10
COMPRESSOR [ON/OFF] Button 10
[CONCERT] Button 11
[CONTROL/LAYER LEVEL] Button 10
Controller Section 20
C.T (Coarse Tune) 63
Cursor Button 11
Cutoff (Offset) 55

D

Damper Noise 47, 51
Damper Polarity 69
DCY 63
Decay Time (Offset) 55
[DEC] Button 11, 24
Demo song 25
DISPLAY 11
[DISPLAY CONTRAST] Knob 12
Driver 89
Duplex Scale 47

E

[ENTER] Button 11
EQ Mode 67
Equalizer 35, 49
EQUALIZER [ON/OFF] Button 10
Error Messages 94
[EXIT/SHIFT] Button 11

F

Factory Reset All 85
Factory Reset Current 85
Fast-forward 39
Favorite Live sets 44
FC1 Polarity 69
FC2 Polarity 69
Feet 42, 43
Fine Tune 54
Format 81
F.T (Fine Tune) 63

H

Hammer Noise 47
[HIGH] Knob 10
[HIGH MID] Knob 10
HUM Noise 51

I

[INC] Button 11, 24
Initialize 49
Ivory Feel Keyboard 97

K

Key Off Position 48, 71
Key Off Reso (Key Off Resonance) 51
Key Off Resonance 47
Key Range 83
Key Touch 48, 71
Key Touch Offset 48, 71
KS-G8 13

L

Layer 21, 54
[LAYER EDIT] Button 11
LAYER LEVEL Slider 10, 31, 59
LAYER Switch 10, 31, 59
Level 51
Lid 47
LIVE SET 21, 44
LIVE SET Buttons 11, 24
LIVE SET Copy 79
LIVE SET Ctrl Ch (LIVE SET Control Channel) 69
LIVE SET Delete 78
LIVE SET Load 78
LIVE SET Save 77
LIVE SET Screen 22
Local ON/OFF 83
Local Switch 86, 87
Lowest No. 83
[LOW] Knob 10
[LOW MID] Knob 10
LWR (Key Range Lower) 56, 62

M

Master Tune ... 67
Master Volume ... 67
Max (Velocity Max) ... 57, 63
M.D (Modulation Depth) ... 64
[MENU] Button ... 11, 23
MFX 1 ... 54
MFX 2 ... 54
MFX Ctrl Dest (MFX Control Destination) ... 73
Micro Tune Edit ... 48
[MIDI] Button ... 10
MIDI Channel ... 82
MIDI Connectors ... 12
MIDI OUT3 Mode ... 69
MIDI Out Port ... 82, 84
MIDI Screen ... 22
Modulation ... 34
Mono/Poly ... 55
M/P (Mono/Poly) ... 62
Multi-effects ... 41

N

Nuance ... 47
Numeric Keys ... 24

O

ONE TOUCH ... 11, 46, 50
ONE TOUCH Screen ... 22
OUTPUT Jacks ... 12

P

PAN ... 56, 62
Panel Lock ... 36
Part Mode ... 69
Part Switch ... 84
Pattern ... 37, 82
PEDAL Jacks ... 12
Pedal Mode ... 67
PHONES Jack ... 12
Pickup Distance ... 51
Pitch Bend ... 34
Pitch Bend/Modulation Lever ... 11
Playing the Songs ... 38
Play Mode ... 84
POR (Portamento Switch) ... 63
Portamento Sw ... 55
Portamento Time ... 55
[POWER ON] Switch ... 12
Preset bank ... 21
Preset memory ... 20
P.T (Portamento Time) ... 63

R

Rec Mode ... 86
Recording ... 40
REL ... 63
Release Time (Offset) ... 55
RES ... 63
Resonance (Offset) ... 55
Return to the Beginning of the Song ... 39
Reverb ... 33
Reverb Amount ... 56
[REVERB] Button ... 10
REVERB [DEPTH] Knob ... 10
REV (Reverb) ... 62
Rev Type (Reverb Type) ... 74
Rewind ... 39
Rhy Set ... 82
Rhythm ... 37, 82
Rotary ... 43
Rx.GM/GM2 Sys On ... 70
Rx.GS Reset ... 70

S

[S1] Button ... 11
S1/S2 Mode ... 68
[S2] Button ... 11
SMF Volume ... 84
Sns (Velocity Sense) ... 57, 63
SONG Copy ... 80
SONG Delete ... 80
SONG/RHYTHM [►/■] Button ... 10
Song/Rhythm Screen ... 22
SONG/RHYTHM [SELECT] Button ... 10
Sound Focus ... 34
[SOUND FOCUS] Knob ... 10
SOUND FOCUS [ON/OFF] Button ... 10
Sound Focus Sw ... 54
Sound Focus Type ... 54
Sound Focus Value ... 54
Sound Generator Section ... 20
Sound Lift ... 47
Split ... 29
[SPLIT] Button ... 10
Split Point ... 29
Stand ... 13
Stereo Width ... 47
String Resonance ... 47
[STUDIO] Button ... 11
Sympathetic Resonance ... 48
System memory ... 20

T

Temperament 70
Temperament Key 70
Tempo 37, 39, 82
Temporary area 20
Tone 21
TONE 54, 56
Tone Character 47
[TONE EDIT] Button 11
Tone Remain 68
Tone Type 51
Tone Wheel mode 42
Tone Wheel Screen 22
Transpose 32, 84
[TRANSPOSE] Button 10
TRA (Transpose) 56, 62
Tuning Type 51
Type (Compressor Type) 76
Type of Amp 52

U

UP1/UP2/LW1/LW2 (Slider Assign) 73
UPR (Key Range Upper) 56, 62
USB Driver 90
USB memory 18, 20
USB MEMORY Connector 12
USB Memory Mode 90
USB MIDI Connector 12
USB MIDI Thru Sw 90
User bank 21
User memory 20

V

VALUE Dial 11, 24
Value (User CC1 Value) 64
Value (User CC2 Value) 64
Velocity 48, 71
Velocity Max 57, 63
Velocity Sense 57, 63
Velo Delay Sens (Velocity Delay Sensitivity) 48, 71
Velo Keyflw Sens (Velocity Keyfollow Sensitivity) 48, 71
[V-LINK] Button 10
V-LINK Mode 83
V-LINK OUT Port 83
V-LINK Tx Channel 83
Volume 82
VOLUME Slider 10
VOL (Volume) 56, 62
V.Reserve (Voice Reserve) 57
VRL (Velocity Range Lower) 57, 63
VRU (Velocity Range Upper) 57, 63

W

WRITE 45
[WRITE] Button 11, 23

Purpose-Oriented Index

This index lists the main setting items relevant to play of the RD-700NX's keyboard.

Volume Setting

Changing the Volume for the entire RD-700NX

[VOLUME] slider (p. 18)

[MENU] button → 0.System → Master Volume (p. 67)

Changing the volume for Individual Layer

LAYER LEVEL slider (p. 31)

[LAYER EDIT] button → Volume (p. 56)

Key Touch and Velocity

Changing the key touch

[MENU] button → 1. Key Touch (p. 71)

Changing the value of velocity for each Layer

[LAYER EDIT] button → Velocity Sens (p. 57)

[LAYER EDIT] button → Velocity Max (p. 57)

[LAYER EDIT] button → Velocity Range (p. 57)

Control

Disabling the Pedal or Bender for Individual Layer

[LAYER EDIT] button → **Switch (p. 57)

Changing the function of the pedals

[MENU] button → 2. Control → FC1/FC2 Pedal Assign (p. 72)

Changing the function of the sliders

[MENU] button → 2. Control → Slider Assign (p. 73)

Changing the function of the sliders [S1] [S2] buttons

[MENU] button → 2. Control → S1/S2 Assign (p. 73)

Key Range

Setting the Key Range for each Layer

[LAYER EDIT] button → Key Range (p. 56)

Equalizer

Preventing equalizer settings from being switched

[MENU] button → 0. System → EQ Mode (p. 67)

Setting the Equalizer

EQUALIZER knob (p. 35)

Compressor

Selecting the type of compressor

[MENU] button → 4. Compressor → Type (p. 76)

Pitch and Tuning

Changing the pitch for the entire RD-700NX

[MENU] button → 0. System → Master Tune (p. 67)

Changing the temperament

[MENU] button → 0. System → Temperament (p. 70)

Transposing the entire keyboard

[TRANSPOSE] button (p. 32)

Changing the pitch for each Tone

[TONE EDIT] button → Coarse Tune (p. 54)

[TONE EDIT] button → Fine Tune (p. 54)

Changing the pitch for each Layer

[LAYER EDIT] button → Transpose (p. 56)

Changing the pitch for each EXTERNAL Layer

[MIDI] button → Transpose (p. 62)

Changing the pitch for each key of Piano Tone

[TONE EDIT] button → 2. Micro Tune Edit (p. 48)

Reverb

Changing the amount of reverb for the entire RD-700NX

REVERB[DEPTH] knob (p. 33)

Changing the amount of reverb for each Tone

[LAYER EDIT] button → Reverb Amount (p. 56)

Changing the reverb type

[REVERB] button (p. 33)

[MENU] button → 3. Effects → Rev Type (p. 74)

Chorus/Delay

Changing the amount of chorus for the entire RD-700NX

CHORUS/DELAY[DEPTH] knob (p. 33)

Changing the amount of chorus for each Tone

[LAYER EDIT] button → Chorus Amount (p. 56)

Changing the chorus type

[CHORUS/DELAY] button (p. 33)

[MENU] button → 3. Effects → Cho Type (p. 75)

Multi-Effects

Changing the Multi-Effects type for each Tone

[TONE EDIT] button → MFX1, MFX2 (p. 54)

Setting the Multi-Effects ON/OFF for Individual Parts

[TONE EDIT] button → MFX1 Sw, MFX2 Sw (p. 54)

Initializing the settings

Initializing the One-Touch Piano Tone

[TONE EDIT] button → 5. Initialize (p. 49)

Initializing the One-Touch E. Piano Tone

[TONE EDIT] button → 2. Initialize (p. 53)

Restoring the factory settings

[MENU] button → 8. Utility → Factory Reset All (p. 85)

Disabling button operations

Panel Lock

[MENU] button + [ENTER] button (p. 36)

MEMO

For EU Countries

CE

This product complies with the requirements of EMCD 2004/108/EC and LVD 2006/95/EC.

For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment requires shielded interface cables in order to meet FCC class B limit.
Any unauthorized changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

For C.A. US (Proposition 65)

WARNING

This product contains chemicals known to cause cancer, birth defects and other reproductive harm, including lead.

For the USA

DECLARATION OF CONFORMITY Compliance Information Statement

Model Name :	RD-700NX
Type of Equipment :	Digital Piano
Responsible Party :	Roland Corporation U.S.
Address :	5100 S. Eastern Avenue, Los Angeles, CA 90040-2938
Telephone :	(323) 890-3700

For EU Countries

UK This symbol indicates that in EU countries, this product must be collected separately from household waste, as defined in each region. Products bearing this symbol must not be discarded together with household waste.

DE Dieses Symbol bedeutet, dass dieses Produkt in EU-Ländern getrennt vom Hausmüll gesammelt werden muss gemäß den regionalen Bestimmungen. Mit diesem Symbol gekennzeichnete Produkte dürfen nicht zusammen mit den Hausmüll entsorgt werden.

FR Ce symbole indique que dans les pays de l'Union européenne, ce produit doit être collecté séparément des ordures ménagères selon les directives en vigueur dans chacun de ces pays. Les produits portant ce symbole ne doivent pas être mis au rebut avec les ordures ménagères.

IT Questo simbolo indica che nei paesi della Comunità europea questo prodotto deve essere smaltito separatamente dai normali rifiuti domestici, secondo la legislazione in vigore in ciascun paese. I prodotti che riportano questo simbolo non devono essere smaltiti insieme ai rifiuti domestici. Ai sensi dell'art. 13 del D.Lgs. 25 luglio 2005 n. 151.

ES Este símbolo indica que en los países de la Unión Europea este producto debe recogerse aparte de los residuos domésticos, tal como esté regulado en cada zona. Los productos con este símbolo no se deben depositar con los residuos domésticos.

PT Este símbolo indica que nos países da UE, a recolha deste produto deverá ser feita separadamente do lixo doméstico, de acordo com os regulamentos de cada região. Os produtos que apresentem este símbolo não deverão ser eliminados juntamente com o lixo doméstico.

NL Dit symbool geeft aan dat in landen van de EU dit product gescheiden van huishoudelijk afval moet worden aangeboden, zoals bepaald per gemeente of regio. Producten die van dit symbool zijn voorzien, mogen niet samen met huishoudelijk afval worden verwijderd.

DK Dette symbol angiver, at i EU-lande skal dette produkt opsamles adskilt fra husholdningsaffald, som defineret i hver enkelt region. Produkter med dette symbol må ikke smides ud sammen med husholdningsaffald.

NO Dette symbolet indikerer at produktet må behandles som spesialavfall i EU-land, iht. til retningslinjer for den enkelte regionen, og ikke kastes sammen med vanlig husholdningsavfall. Produkter som er merket med dette symbolet, må ikke kastes sammen med vanlig husholdningsavfall.

SE Symbolen anger att i EU-länder måste den här produkten kasseras separat från hushållsavfall, i enlighet med varje regions bestämmelser. Produkter med den här symbolen får inte kasseras tillsammans med hushållsavfall.

FI Tämä merkintä ilmaisee, että tuote on EU-maissa kerättävä erillään kotitalousjätteistä kunkin alueen voimassa olevien määräysten mukaisesti. Tällä merkinnällä varustettuja tuotteita ei saa hävittää kotitalousjätteiden mukana.

HU Ez a szimbólum azt jelenti, hogy az Európai Unióban ezt a terméket a háztartási hulladéktól elkülönítve, az adott régióban érvényes szabályozás szerint kell gyűjteni. Az ezzel a szimbólummal ellátott termékeket nem szabad a háztartási hulladék közé dobni.

PL Symbol oznacza, że zgodnie z regulacjami w odpowiednim regionie, w krajach UE produktu nie należy wyrzucać z odpadami domowymi. Produktów opatrzonych tym symbolem nie można utylizować razem z odpadami domowymi.

CZ Tento symbol udává, že v zemích EU musí být tento výrobek sbírán odděleně od domácího odpadu, jak je určeno pro každý region. Výrobky nesoucí tento symbol se nesmí vyhazovat spolu s domácím odpadem.

SK Tento symbol vyjadruje, že v krajinách EÚ sa musí zber tohto produktu vykonávať oddelene od domového odpadu, podľa nariadení platných v konkrétnej krajine. Produkty s týmto symbolom sa nesmú vyhadzovať spolu s domovým odpadom.

EE See sümbol näitab, et EL-i maades tuleb see toode olemprügist eraldi koguda, nii nagu on igas piirkonnas määratletud. Selle sümboliga märgitud tooteid ei tohi ära visata koos olmeprügiga.

LT Šis simbolis rodo, kad ES šalyse šis produktas turi būti surenkamas atskirai nuo buitinių atliekų, kaip nustatyta kiekviename regione. Šiuo simboliu paženklinti produktai neturi būti išmetami kartu su buitinėmis atliekomis.

LV Šis simbols norāda, ka ES valstīs šo produktu jāievāc atsevišķi no mājsaimniecības atkritumiem, kā noteikts katrā reģionā. Produktus ar šo simbolu nedrīkst izmest kopā ar mājsaimniecības atkritumiem.

SI Ta simbol označuje, da je treba proizvod v državah EU zbirati ločeno od gospodinjskih odpadkov, tako kot je določeno v vsaki regiji. Proizvoda s tem znakom ni dovoljeno odlagati skupaj z gospodinjskimi odpadki.

GR Το σύμβολο αυτό υποδηλώνει ότι στις χώρες της Ε.Ε. το συγκεκριμένο προϊόν πρέπει να συλλέγεται χωριστά από τα υπόλοιπα οικιακά απορρίμματα, σύμφωνα με όσα προβλέπονται σε κάθε περιοχή. Τα προϊόντα που φέρουν το συγκεκριμένο σύμβολο δεν πρέπει να απορρίπτονται μαζί με τα οικιακά απορρίμματα.

For China

有关产品中所含有害物质的说明

本资料就本公司产品中所含的特定有害物质及其安全性予以说明。

本资料适用于 2007 年 3 月 1 日以后本公司所制造的产品。

环保使用期限

此标志适用于在中国国内销售的电子信息产品，表示环保使用期限的年数。所谓环保使用期限是指在自制造日起的规定期限内，产品中所含的有害物质不致引起环境污染，不会对人身、财产造成严重的不良影响。

环保使用期限仅在遵照产品使用说明书，正确使用产品的条件下才有效。

不当的使用，将会导致有害物质泄漏的危险。

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
外壳（壳体）	×	○	○	○	○	○
电子部件（印刷电路板等）	×	○	×	○	○	○
附件（电源线、交流适配器等）	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

因根据现有的技术水平，还没有什么物质能够代替它。

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

AFRICA

EGYPT
Al Fanny Trading Office
9, EBN Hagar Al Askalany Street,
ARD E1 Golf, Heliopolis,
Cairo 11341, EGYPT
TEL: (022)-417-1828

REUNION
MARCEL FO-YAM Sarl
25 Rue Jules Hermann,
Chaudron - BP79 97 491
Ste Clotilde Cedex,
REUNION ISLAND
TEL: (0262) 218-429

SOUTH AFRICA
T.O.M.S. Sound & Music (Pty)Ltd.
2 ASTRON ROAD DENVER
JOHANNESBURG ZA 2195,
SOUTH AFRICA
TEL: (011) 417 3400

Paul Bothner(PTY)Ltd.
Royal Cape Park, Unit 24
Londonderry Road, Ottery 7800
Cape Town, SOUTH AFRICA
TEL: (021) 799 4900

ASIA

CHINA
Roland Shanghai Electronics Co.,Ltd.
5F. No.1500 Pingliang Road
Shanghai 200090, CHINA
TEL: (021) 5580-0800

Roland Shanghai Electronics Co.,Ltd. (BEIJING OFFICE)
3F, Soluxe Fortune Building
63 West Dawang Road, Chaoyang District, Beijing, CHINA
TEL: (010) 5960-2565

HONG KONG
Tom Lee Music
11/F Silvercord Tower 1
30 Canton Rd
Tsimshatsui, Kowloon,
HONG KONG
TEL: 852-2737-7688

Parsons Music Ltd.
8th Floor, Railway Plaza, 39
Chatham Road South, T.S.T,
Kowloon, HONG KONG
TEL: 852-2333-1863

INDIA
Rivera Digitec (India) Pvt. Ltd.
411, Nirman Kendra Mahalaxmi Flats Compound Off. Dr. Edwin Moses Road, Mumbai-400011, INDIA
TEL: (022) 2493 9051

INDONESIA
PT. Citra Intirama
Ruko Garden Shopping Arcade
Unit 8 CR, Podomoro City
Jl.Letjend. S.Parman Kav.28
Jakarta Barat 11470, INDONESIA
TEL: (021) 5698-5519/5520

KOREA
Cosmos Corporation
1461-9, Seocho-Dong,
Seocho Ku, Seoul, KOREA
TEL: (02) 3486-8855

MALAYSIA/ SINGAPORE
Roland Asia Pacific Sdn. Bhd.
45-1, Block C2, Jalan PJU 1/39,
Dataran Prima, 47301 Petaling
Jaya, Selangor, MALAYSIA
TEL: (03) 7805-3263

PHILIPPINES
G.A. Yupangco & Co. Inc.
339 Gil J. Puyat Avenue
Makati, Metro Manila 1200,
PHILIPPINES
TEL: (02) 899 9801

TAIWAN
ROLAND TAIWAN ENTERPRISE CO., LTD.
9F-5, No. 112 Chung Shan
North Road Sec. 2 Taipei 104,
TAIWAN R.O.C.
TEL: (02) 2561 3339

THAILAND
Theera Music Co. , Ltd.
100-108 Soi Verng Nakornkasem,
New Road,Sumpantawong,
Bangkok 10100, THAILAND
TEL: (02) 224-8821

VIET NAM
VIET THUONG CORPORATION
386 CACH MANG THANG TAM ST.
DIST.3, HO CHI MINH CITY,
VIET NAM
TEL: (08) 9316540

OCEANIA

AUSTRALIA/ NEW ZEALAND
Roland Corporation Australia Pty.,Ltd.
38 Campbell Avenue
Dee Why West. NSW 2099,
AUSTRALIA

For Australia
TEL: (02) 9982 8266
For New Zealand
TEL: (09) 3098 715

CENTRAL/LATIN AMERICA

ARGENTINA
Instrumentos Musicales S.A.
Av.Santa Fe 2055
(1123) Buenos Aires, ARGENTINA
TEL: (011) 4508-2700

BARBADOS
A&B Music Supplies LTD
12 Webster Industrial Park
Wildey, St.Michael, BARBADOS
TEL: (246) 430-1100

BRAZIL
Roland Brasil Ltda.
Rua San Jose, 211
Parque Industrial San Jose
Cotia - Sao Paulo - SP, BRAZIL
TEL: (011) 4615 5666

CHILE
Comercial Fancy II S.A.
Rut.: 96.919.420-1
Nataniel Cox #739, 4th Floor
Santiago - Centro, CHILE
TEL: (02) 688-9540

COLOMBIA
Centro Musical Ltda.
Cra 43 B No 25 A 41 Bododega 9
Medellin, COLOMBIA
TEL: (574) 3812529

COSTA RICA
JUAN Bansbach Instrumentos Musicales
Ave.1. Calle 11, Apartado 10237,
San Jose, COSTA RICA
TEL: 258-0211

CURACAO
Zeelandia Music Center Inc.
Orionweg 30
Curacao, Netherland Antilles
TEL: (305) 5926866

DOMINICAN REPUBLIC
Instrumentos Fernando Giraldez
Calle Proyecto Central No.3
Ens.La Esperilla
Santo Domingo,
DOMINICAN REPUBLIC
TEL: (809) 683 0305

ECUADOR
Mas Musika
Rumichaca 822 y Zaruma
Guayaquil - ECUADOR
TEL: (593-4) 2302364

EL SALVADOR
OMNI MUSIC
75 Avenida Norte y Final Alameda
Juan Pablo II,
Edificio No.4010 San Salvador,
EL SALVADOR
TEL: 262-0788

GUATEMALA
Casa Instrumental
Calzada Roosevelt 34-01,zona 11
Ciudad de Guatemala,
GUATEMALA
TEL: (502) 599-2888

HONDURAS
Almacen Pajaro Azul S.A. de C.V.
BO.Paz Barahona
3 Ave.11 Calle S.O
San Pedro Sula, HONDURAS
TEL: (504) 553-2029

MARTINIQUE
Musique & Son
Z.I.Les Mangle
97232 Le Lamantin,
MARTINIQUE F.W.I.
TEL: 596 596 426860

Gigamusic SARL
10 Rte De La Folie
97200 Fort De France
MARTINIQUE F.W.I.
TEL: 596 596 715222

MEXICO
Casa Veerkamp, s.a. de c.v.
Av. Toluca No. 323, Col. Olivar de los Padres 01780 Mexico D.F., MEXICO
TEL: (55) 5668-6699

NICARAGUA
Bansbach Instrumentos Musicales Nicaragua
Altamira D'Este Calle Principal de la Farmacia 5ta.Avenida
1 Cuadra al Lago.#503
Managua, NICARAGUA
TEL: (505) 277-2557

PANAMA
SUPRO MUNDIAL, S.A.
Boulevard Andrews, Albrook,
Panama City, REP. DE PANAMA
TEL: 315-0101

PARAGUAY
Distribuidora De Instrumentos Musicales
J.E. Olear y ESQ. Manduvira
Asuncion, PARAGUAY
TEL: (595) 21 492147

PERU
Audionet
Distribuciones Musicales SAC
Juan Fanning 530
Miraflores
Lima - PERU
TEL: (511) 4461388

TRINIDAD
AMR Ltd
Ground Floor
Maritime Plaza
Barataria TRINIDAD W.I.
TEL: (868) 638 6385

URUGUAY
Todo Musica S.A.
Francisco Acuna de Figueroa 1771
C.P.: 11.800
Montevideo, URUGUAY
TEL: (02) 924-2335

VENEZUELA
Instrumentos Musicales Allegro,C.A.
Av.las industrias edf.Guitar import #7 zona Industrial de Turumo
Caracas, VENEZUELA
TEL: (212) 244-1122

EUROPE

BELGIUM/FRANCE/ HOLLAND/ LUXEMBOURG
Roland Central Europe N.V.
Houtstraat 3, B-2260, Oevel (Westerlo) BELGIUM
TEL: (014) 575811

CROATIA
ART-CENTAR
Degenova 3.
HR - 10000 Zagreb, CROATIA
TEL: (1) 466 8493

CZECH REP.
CZECH REPUBLIC DISTRIBUTOR s.r.o
Voctárova 247/16
180 00 Praha 8, CZECH REP.
TEL: (2) 830 20270

DENMARK
Roland Scandinavia A/S
Skagerrakvej 7 Postbox 880
DK-2100 Copenhagen,
DENMARK
TEL: 3916 6200

FINLAND
Roland Scandinavia As, Filial Finland
Vanha Nurmijarventie 62
01670 Vantaa, FINLAND
TEL: (0) 9 68 24 020

GERMANY/AUSTRIA
Roland Elektronische Musikinstrumente HmbH.
Oststrasse 96, 22844 Norderstedt, GERMANY
TEL: (040) 52 60090

GREECE/CYPRUS
STOLLAS S.A.
Music Sound Light
155, New National Road
Patras 26442, GREECE
TEL: 2610 435400

HUNGARY
Roland East Europe Ltd.
2045 Torokbalint, FSD Park,
building 3., HUNGARY
TEL: (23) 511011

IRELAND
Roland Ireland
E2 Calmount Park, Calmount Avenue, Dublin 12,
Republic of IRELAND
TEL: (01) 4294444

ITALY
Roland Italy S. p. A.
Viale delle Industrie 8,
20020 Arese, Milano, ITALY
TEL: (02) 937-78300

NORWAY
Roland Scandinavia Avd.
Kontor Norge
Lilleakerveien 2 Postboks 95
Lilleaker N-0216 Oslo,
NORWAY
TEL: 2273 0074

POLAND
ROLAND POLSKA SP. Z O.O.
ul. Kty Grodziskie 16B
03-289 Warszawa, POLAND
TEL: (022) 678 9512

PORTUGAL
Roland Iberia, S.L.
Branch Office Porto
Edificio Tower Plaza
Rotunda Eng. Edgar Cardoso 23, 9ºG
4400-676 Vila Nova de Gaia, PORTUGAL
TEL: (+351) 22 608 00 60

ROMANIA
FBS LINES
Piata Libertatii 1,
535500 Gheorgheni, ROMANIA
TEL: (266) 364 609

RUSSIA
Roland Music LLC
Dorozhnaya ul.3,korp.6
117 545 Moscow, RUSSIA
TEL: (495) 981-4967

SERBIA
Music AP Ltd.
Sutjeska br. 5 XS - 24413 Palic, SERBIA
TEL: (024) 539 395

SLOVAKIA
DAN Acoustic s.r.o.
Povazská 18.
SK - 940 01 Nové Zámky, SLOVAKIA
TEL: (035) 6424 330

SPAIN
Roland Iberia, S.L.
Paseo García Faria, 33-35
08005 Barcelona, SPAIN
TEL: 93 493 91 00

SWEDEN
Roland Scandinavia A/S
SWEDISH SALES OFFICE
Mårbackagatan 31, 4 tr.
SE-123 43 Farsta, SWEDEN
TEL: (0) 8 683 04 30

SWITZERLAND
Roland (Switzerland) AG
Landstrasse 5, Postfach,
CH-4452 Itingen, SWITZERLAND
TEL: (061) 975-9987

UKRAINE
EURHYTHMICS Ltd.
P.O.Box: 37-a.
Nedecey Str. 30
UA - 89600 Mukachevo, UKRAINE
TEL: (03131) 414-40

UNITED KINGDOM
Roland (U.K.) Ltd.
Atlantic Close, SWANSEA SA7 9FJ,
UNITED KINGDOM
TEL: (01792) 702701

MIDDLE EAST

BAHRAIN
Moon Stores
No.1231&1249 Rumaytha Building Road 3931,
Manama 339, BAHRAIN
TEL: 17 813 942

IRAN
MOCO INC.
NO.16 End of Nike St. Shariaty Ave, Roberouye Cerah Mirdamad
Teheran, IRAN
TEL: (021)-2288-2998

ISRAEL
Halilit P. Greenspoon & Sons Ltd.
8 Retzif Ha'alia Hashnia St.
Tel-Aviv-Yafo ISRAEL
TEL: (03) 6823666

JORDAN
MUSIC HOUSE CO. LTD.
FREDDY FOR MUSIC
P. O. Box 922846
Amman 11192, JORDAN
TEL: (06) 5692696

KUWAIT
EASA HUSAIN AL-YOUSIFI & SONS CO.
Al-Yousifi Service Center
P.O.Box 126 (Safat) 13002,
KUWAIT
TEL: 00 965 802929

LEBANON
Chahine S.A.L.
George Zeidan St., Chahine Bldg.,
Achrafieh, P.O.Box: 16-5857
Beirut, LEBANON
TEL: (01) 20-1441

OMAN
TALENTZ CENTRE L.L.C.
Malatan House No.1
Al Noor Street, Ruwi
SULTANATE OF OMAN
TEL: 2478 3443

QATAR
AL-EMADI TRADING & CONTRACTING CO.
P.O. Box 62, Doha, QATAR
TEL: 4423-554

SAUDI ARABIA
aDawliah Universal Electronics APL
Behind Pizza Inn
Prince Turkey Street
aDawliah Building,
PO BOX 2154,
Alkhobar 31952,
SAUDI ARABIA
TEL: (03) 8643601

SYRIA
Technical Light & Sound Center
PO Box 13520 Bldg No.49
Khaled Abn Alwalid St.
Damascus, SYRIA
TEL: (011) 223-5384

TURKEY
ZUHAL DIS TICARET A.S.
Galip Dede Cad. No.33
Beyoglu, Istanbul, TURKEY
TEL: (0212) 249 85 10

U.A.E.
Zak Electronics & Musical Instruments Co. L.L.C.
Zabeel Road, Al Sherooq Bldg., No. 14, Ground Floor, Dubai, U.A.E.
TEL: (04) 3360715

NORTH AMERICA

CANADA
Roland Canada Ltd.
(Head Office)
5480 Parkwood Way Richmond B. C., V6V 2M4, CANADA
TEL: (604) 270 6626

Roland Canada Ltd.
(Toronto Office)
170 Admiral Boulevard
Mississauga On L5T 2N6,
CANADA
TEL: (905) 362 9707

U. S. A.
Roland Corporation U.S.
5100 S. Eastern Avenue
Los Angeles, CA 90040-2938,
U. S. A.
TEL: (323) 890 3700

Roland

5100016983-02